



U.S. ENVIRONMENTAL PROTECTION AGENCY

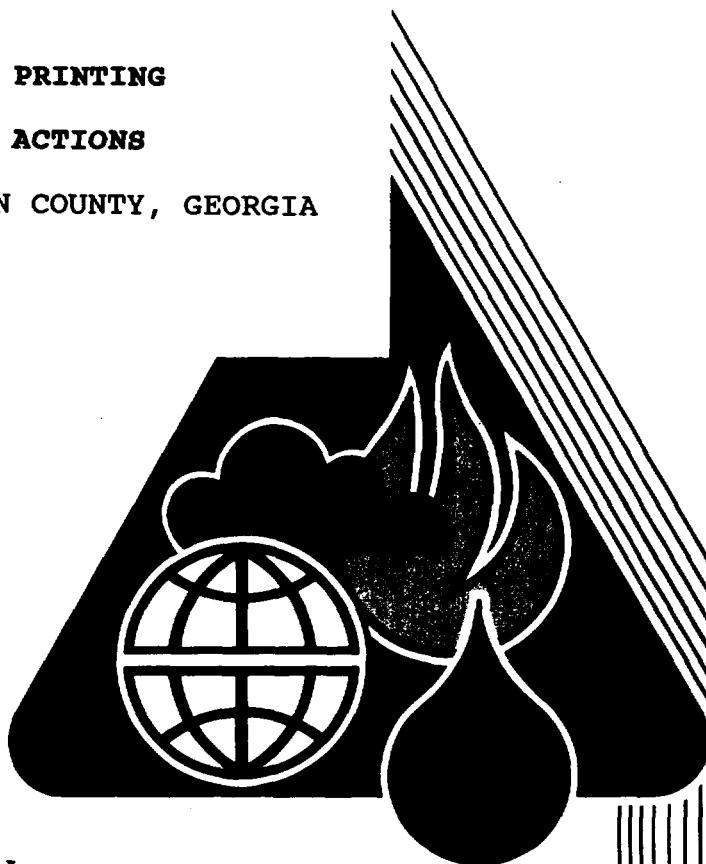
Contract No. 68-01-7367

84 908

SPECTRUM PRINTING

REMOVAL ACTIONS

COVINGTON, NEWTON COUNTY, GEORGIA



Region IV

ROY F. WESTON, INC.

Spill Prevention & Emergency Response Division

In Association with ICF Technology Inc., C.C. Johnson & Malhotra, P.C.,
Resource Applications, Inc., Geo/Resource Consultants, Inc., and
Environmental Toxicology International, Inc.



WESTON
DESIGNERS CONSULTANTS



U.S. ENVIRONMENTAL PROTECTION AGENCY

Contract No. 68-01-7367

//

SPECTRUM PRINTING

REMOVAL ACTIONS

COVINGTON, NEWTON COUNTY, GEORGIA

**TO: Bill Klutz, OSC
EPA, Region IV**

**FROM: Teri Wynn
TAT, Region IV**

**TECHNICAL DIRECTION DOCUMENT
TDD #04-8810-26-2026
#04-8810-26a-2213
TAT #04-F-03026**

DATE: 05 May 1989

News Articles

APPENDIX D

TECHNICAL ASSISTANCE TEAM

**Roy F. Weston, Inc./Major Programs Division
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1575 Northside Drive
Atlanta, Georgia 30318**

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I. INTRODUCTION

On-scene coordinator (OSC) Bill Klutz tasked the Roy F. Weston Technical Assistance Team (TAT) under Technical Direction Document (TDD) #04-8810-26 to assist in on-scene contractor monitoring at the Spectrum Printing Site in Covington, Newton County, Georgia (Figures 1 & 2 - Site Maps).

II. SITUATION

The Spectrum Printing site is located in the Covington, Georgia commercial district at 4132 U.S. Highway 278. From January 1987 to May 1987 Spectrum Printing operated a printing company at this location. Spectrum Printing owner, Ralph Preddy, filed for bankruptcy in May of 1987. The property is now in the trusteeship of the Law Firm of Richard Ellenberg of Atlanta.

According to a 1987 Site Investigation Report, approximately 260 drums of waste were essentially abandoned with no plan in place for disposal. The drums were stockpiled on a paved area behind a medium sized industrial building (Figure 3 - Site Diagram). A public road is contiguous to the paved area. Open drums containing printing process and waste materials were observable and accessible from the road (Attachment A - Photographs).
APPENDIX D

During the site investigation, five composite samples of drummed and spilled material from the site were collected and analyzed. Analyses showed low level heavy metal contamination as well as xylene, toluene, and benzene.

III. SUMMARY

Between the dates of 28 and 29 September 1988, Region IV TAT members Teri Wynn, Christi Ulmer, and Karen Jarrett-Gill mobilized to the facility formerly operated by Spectrum Printing Company, Inc. in Covington. The TAT members met with the trustees contractor, Haztech. Steve Holt representing Haztech was queried about the operations that were to take place on site. Mr. Holt replied that during this initial phase, the drums would be numbered and staged (Photos #3, 13, & 16 - 22). The drums would then be opened for sampling (Photos #25 - 32). Finally, the general appearance and characteristics would be noted on drum logs (Attachment F - Drum Logs). Compatibility of the waste for possible bulking would be evaluated. Mr. Holt also replied that during subsequent removal phases, the drums would be crushed and eventually dumped in a roll-off for disposal. Also, contaminated soils and residuals underneath the drums would be excavated and disposed. Haztech was unsure of actions to be taken relative to the drums stored inside of the building, but a backhoe with an articulating arm-attachment could be used to move the drums to the staging area during the actual removal process.

Conductor's Wheel Report

Approximately 2 to 3 weeks ~~after the~~ sampling investigation on 28 - 29 September, the sample analysis were received by Haztech and a copy of the analysis forwarded to TAT. Analyses revealed compatibility of the various waste materials (Attachment D - Compatibility Analyses Report).

On 8 November 1988, Cindy Love of Haztech contacted OSC Klutz to inform him of the initiation of actual removal actions tentatively scheduled for March 1989. Ms. Love also informed OSC Klutz that the Georgia Environmental Protection Division (EPD) had been notified of this schedule and had made plans to be on-site during the removal.

Figure 1
General Location Map
Haztech's original plans for waste disposal was to bulk two waste streams, inorganic material and organic material. The inorganic material was to be solidified and sent to an Industrial Waste Landfill in Live Oak, Georgia. The organic material was to be incinerated. On 22 November, OSC Klutz informed TAT that a meeting to discuss disposal of the wastes at the Spectrum Printing site would be taking place at the EPA offices in Atlanta. He explained that some components of the wastes were found to be hazardous, and landfilling would not be a viable consideration. Such wastes were designated as F003-F005 RCRA wastes and were considered "land ban wastes".

Following the clarification of disposal criteria, Haztech notified the TAT office through OSC Klutz as to a revised time schedule as follows:

- 1) On 12/22/88 the 1000 gallon above ground storage tank (vat) was to be pulled;
- 2) The analytical data from the sampling that took place on 28 and 29 September 1988, was invalid as hazardous categorization for landfilling was performed and this disposal option will not be utilized;

- 3) According to Cindy Love and Gary Rogers of Haztech, Haztech will be the site supervisors and will inform TAT of the definitive dates and times of removal actions;
- 4) The removal and disposal was estimated between \$12,000.00 and \$115,000.00 with Haztech possibly subcontracting incinerator services to ThermoKem;
- 5) A representative of the Georgia EPD will probably be on-site.

Doug Snyder of Westinghouse Haztech subsequently contacted TAT member Wynn as to the initiation of removal activities beginning 6 March 1989 at the Spectrum Printing site in Covington. Mr. Snyder also indicated a time frame of seven to ten days for completion of removal actions. Waste streams consisting of water, inks, isopropyl alcohol, adhesives, and contaminated dirts and sludges were to be combined in drums. He stated that the Tricel Company, a fuel blending facility located in Florida, had been contacted relative to disposal. Mr. Snyder contacted OSC Klutz for permission to begin removal actions. On 19 January 1989, approval was obtained from the OSC and the GA EPD to begin removal actions and transport wastes to Tricel in Bartow, Florida for disposal.

IV. REMOVAL ACTIONS

On 6 March, TAT was task by OSC Klutz to perform contractor monitoring of the responsible party cleanup action at the Spectrum Printing site. Upon arrival, one security guard and five Haztech personnel including the site supervisor, Doug

Snyder, were present. Mr. Snyder told TAT that an explosimeter and an HNu would be used to monitor the staging area and the drums before any activity took place. Mr. Snyder also explained to TAT that the original site safety plan had been modified for additional actions and/or changes in the initial scope of work.

A command post area was selected inside the empty warehouse where an office for Spectrum Printing had been previously established. Materials and equipment for decon, replacement drums and overpacks were placed inside the warehouse for set-up on the following day. A fork-lift was mobilized to the site for drum handling purposes to facilitate the movement of both empty and full drums to designated areas. A backhoe with an articulating arm was also mobed to the site for handling of drums.

Following set-up of the decon area, the HNu and explosimeter were checked to ensure proper calibration. A Haztech crew dressed in "Level C" to prevent accidental spillage of wastes onto clothing and/or skin and to prevent inhalation of vapors, entered the drum staging area. All drums were opened and the head space monitored for emission of volatile organic components. A total of three drums eluded readings in excess of 100 units. These drums were subsequently labeled and segregated. No further readings above background were observed (Attachment B - TAT Sampling Activities Report).

Actions aimed at product transfer were initiated from drums which were observed to be damaged and/or rusted. Contents were removed using a diaphragm pump or physically emptied into replacement

drums. A total of two hundred and fifty two drums were emptied into replacement drums. Haztech combined wastes as much as possible; however, most of the drums were already full.

After all wastes were combined and sealed in the drums, a 1000 gallon storage tank was emptied. A 1/4 inch hose was attached to a connection on the bottom of the tank to allow the weight of the thick, dark, viscous material to force itself down through the hose into individual disposal drums.

Upon completion of drum overpacking and staging, Haztech began transporting waste materials in drums to the Tricel fuel blending facility in Bartow, Florida. All of the waste being transported were manifested in accordance with DOT specifications. Two truckloads of drums (a total of 191) were transported from the Spectrum Printing Site in Covington, Georgia to the Tricel facility on 27 - 28 March. Tricel accepted 70 of the drums and rejected 121 drums as they contained solid materials such as boards. The Tricel facility was unable to process such wastes. Subsequently, all of the waste was diverted to the Rineco Facility in Benton, Arkansas on 30 March. The Rineco Facility was also a fuel blending facility which could accept both solid and liquid waste streams. Of the 121 drums going to Rineco, 96 drums were on one truckload and 25 were sent as a partial load. In addition, 73 drums were transported from Covington, Georgia directly to the Rineco Facility in Benton, Arkansas.

The 252 empty drums remaining following transfer operations were sent to MKC, a drum and solvent reclainer. Twenty-three drums

containing tyvek and visqueen used in the removal process were forwarded to the BFI landfill for subsequent disposal. Ten empty drums used for deconning purposes were sent to McConnel Company, also a drum reclaimer. All site activities were completed by mid-April; however, during a follow-up inspection by Haztech, five additional drums were found containing waste materials. Haztech subsequently sent a partial load of five drums to the Rineco Facility.

V. ROSTER OF AGENCIES, ORGANIZATION, AND INDIVIDUALS

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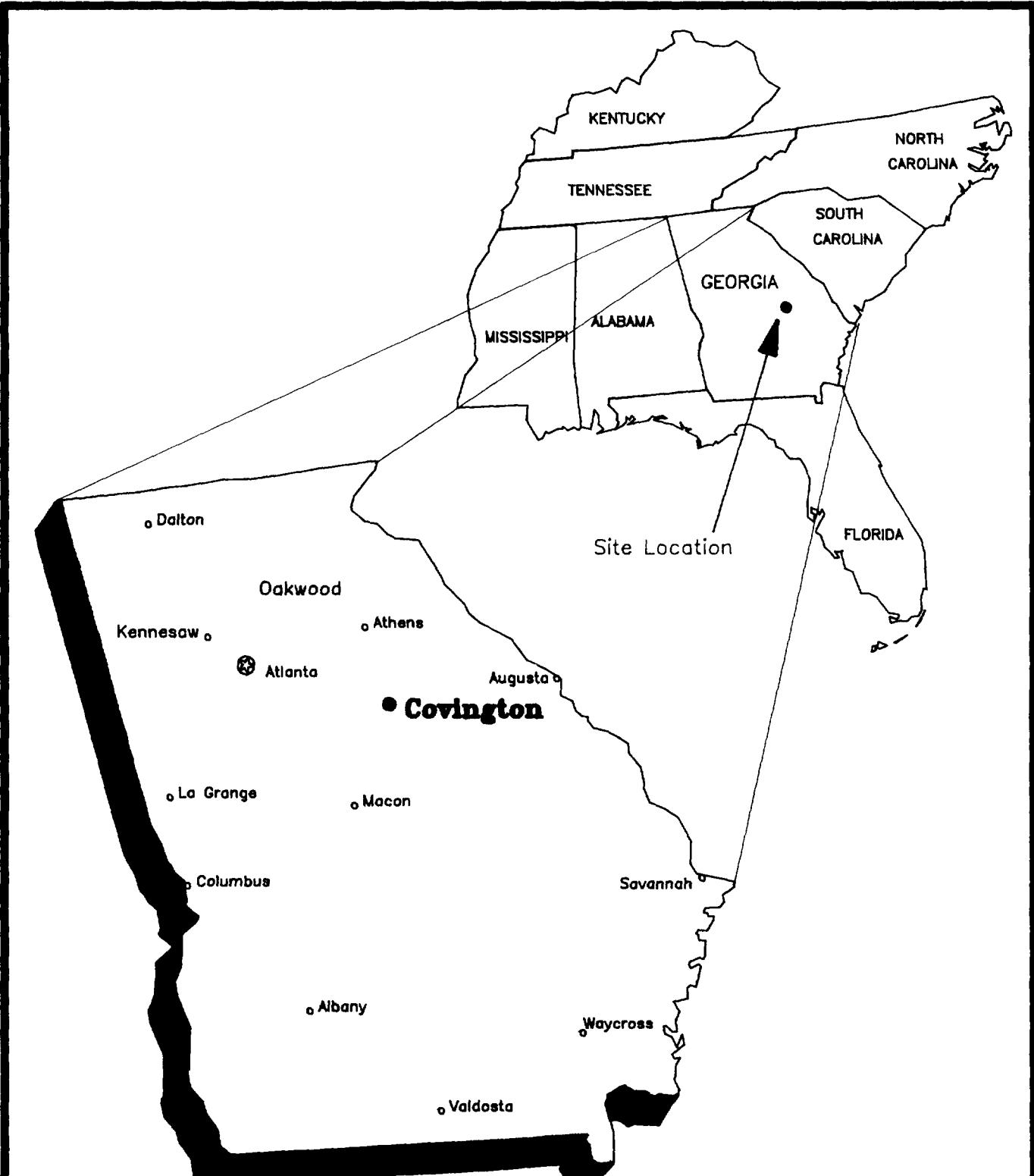
Sampling

Steve Holt, Operations
Cindy Love
Joe Ethridge
John Wood
Eric Bruce
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5280 Panola Industrial Blvd.
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404/981-9332

Doug Snyder, Sight Supervisor
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Marlon Perry
Haztech
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Decatur, Georgia 30035-4013
404/981-9332

VI. LIST OF FIGURES AND APPENDICES

FIGURE 1
General Site Location Map

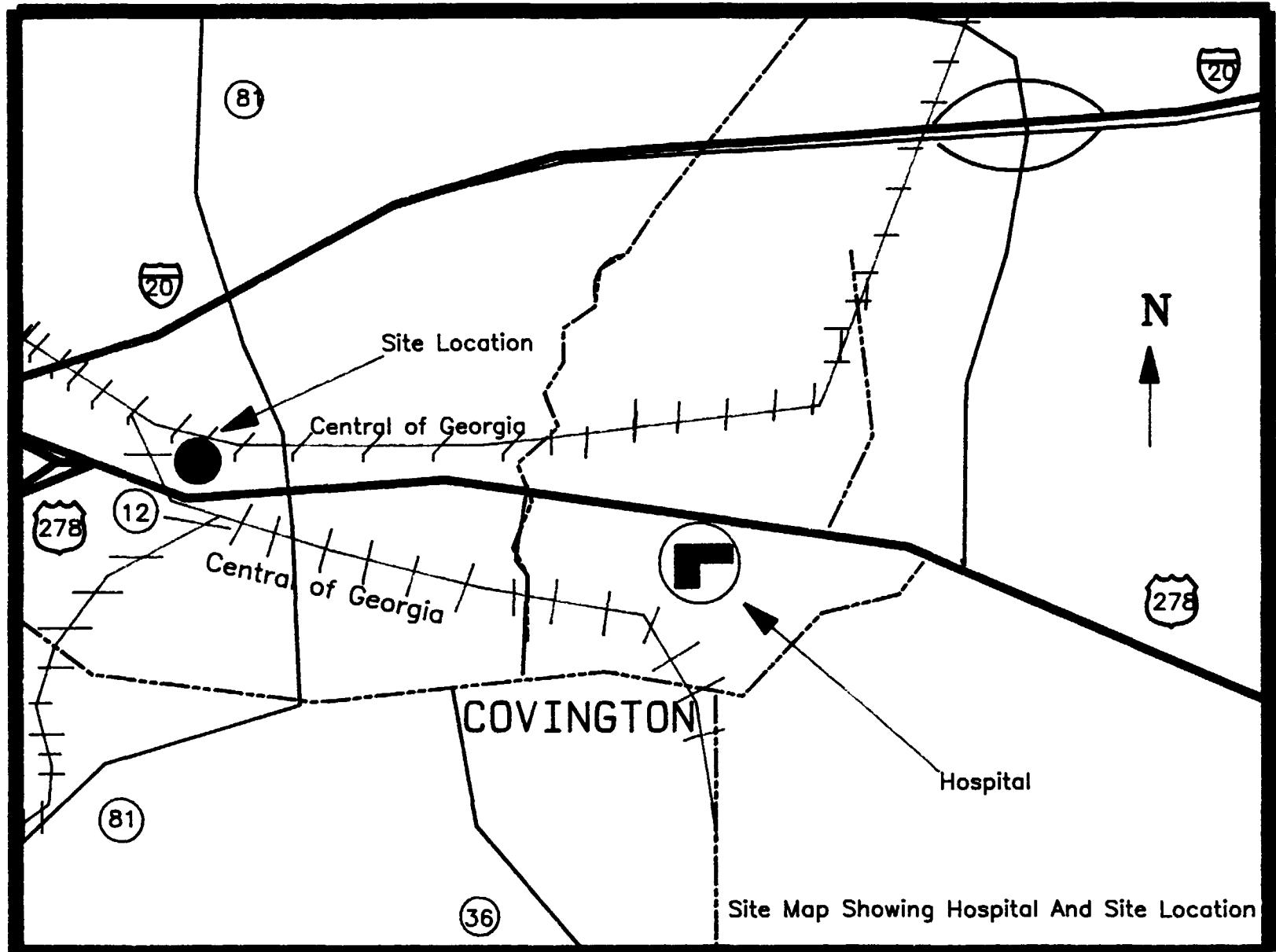


E.P.A. Region IV
General Site Location Map
TDD # 04881026A-2213
Spectrum Printing Site
Covington, Newton County, Georgia



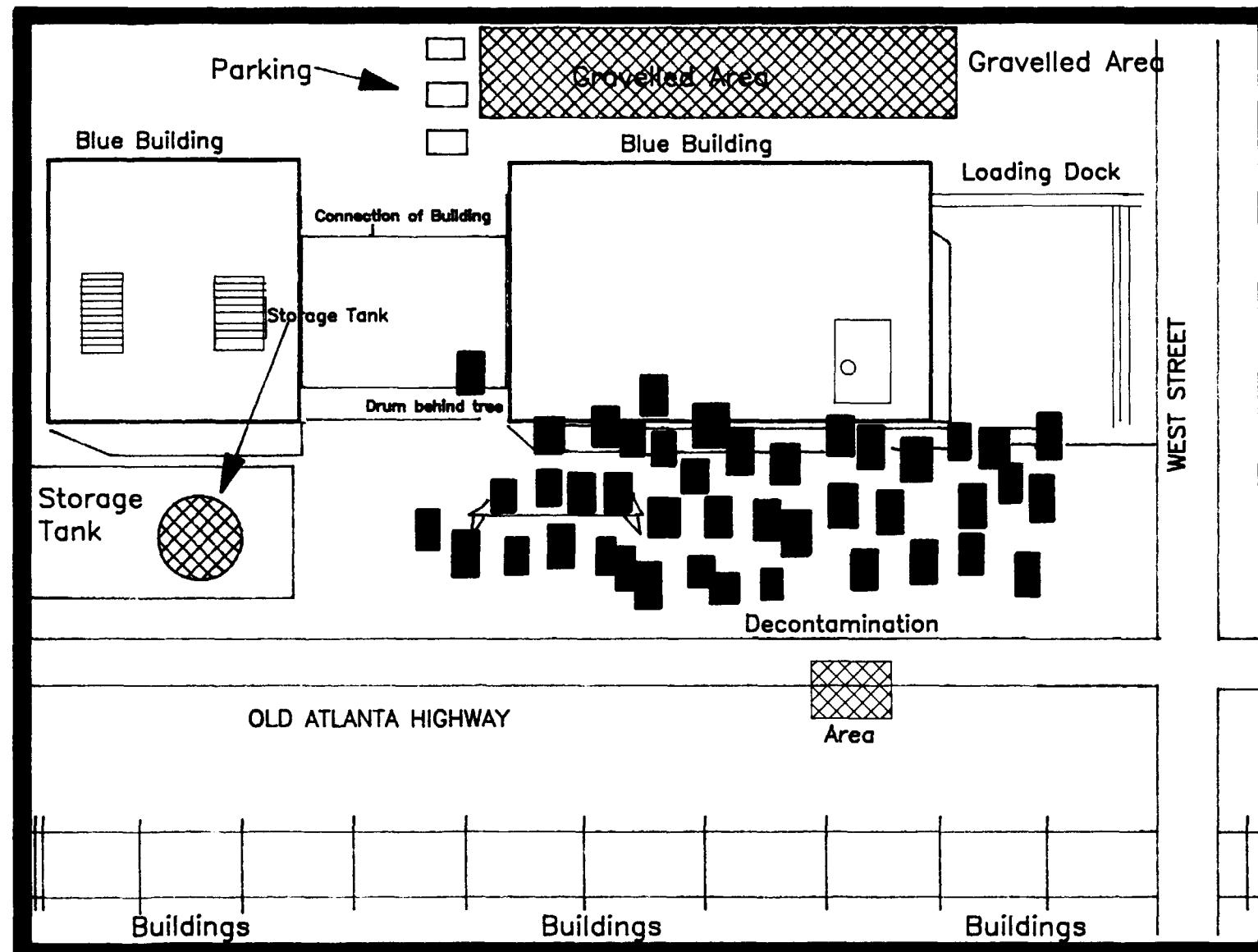
EPA

FIGURE 2
Area Site Location Map



Spectrum Printing Site
Covington, Newton County, Georgia

FIGURE 3
Site Diagram



TITLE: Spectrum Printing Site

LOCATION: Covington, Newton County, Georgia

DATE: September 28 and 29, 1988

TDD: #04881026A-2213

APPENDIX A
Photographs

POOR LEGIBILITY

**PARTS OF THIS DOCUMENT
MAY BE UNREADABLE, DUE TO
THE QUALITY OF THE
ORIGINAL**



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88 9 28

PHOTO# 1

**OFFICIAL PHOTOGRAPH
ENVIRONMENTAL PROTECTION AGENCY**

Subject: Northwest view of Spectrum Printing off Old Atlanta Highway.

Location: Covington, Newton County, Georgia

Date: 28 September 1988

Time: 0855

Photographer: Wynn

Witness: Ulmer

Film: Kodak **ASA:** 100

Location of Negative:

TDD#: 88809-14-1779

Atlanta TAT Office

PHOTO# 2

**OFFICIAL PHOTOGRAPH
ENVIRONMENTAL PROTECTION AGENCY**

Subject: Southeast view of Spectrum Printing where drums were staged on the side of the building.

Location: Covington, Newton County, Georgia

Date: 28 September 1988

Photographer: Wynn

Film: Kodak **ASA:** 100

TDD#: 8809-14-1779

Time: 0855

Witness: Ulmer

Location of Negative:

Atlanta TAT Office



PHOTO# 3

**OFFICIAL PHOTOGRAPH
ENVIRONMENTAL PROTECTION AGENCY**

Subject: Drums were placed on pallets during staging.

Location: Covington, Newton County, Georgia

Date: 28 September 1988

Photographer: Wynn

Film: Kodak ASA: 100

TDD#: 8809-14-1779

Time: 0855

Witness: Ulmer

Location of Negative:

Atlanta TAT Office

PHOTO# 4

**OFFICIAL PHOTOGRAPH
ENVIRONMENTAL PROTECTION AGENCY**

Subject: Inside view of the warehouse.

Location: Covington, Newton County, Georgia

Date: 28 September 1988

Photographer: Wynn

Film: Kodak ASA: 100

TDD#: 8809-14-1779

Time: 0900

Witness: Ulmer

Location of Negative:

Atlanta TAT Office



PHOTO# 5

**OFFICIAL PHOTOGRAPH
ENVIRONMENTAL PROTECTION AGENCY**

Subject: Inside view of warehouse.

Location: Covington, Newton County, Georgia

Date: 28 September 1988
Photographer: Wynn

Film: Kodak **ASA:** 100

TDD#: 8809-14-1779

Time: 0910
Witness: Ulmer

Location of Negative:

Atlanta TAT Office

PHOTO# 6

**OFFICIAL PHOTOGRAPH
ENVIRONMENTAL PROTECTION AGENCY**

Subject: Office area inside of warehouse.

Location: Covington, Newton County, Georgia

Date: 28 September 1988

Photographer: Wynn

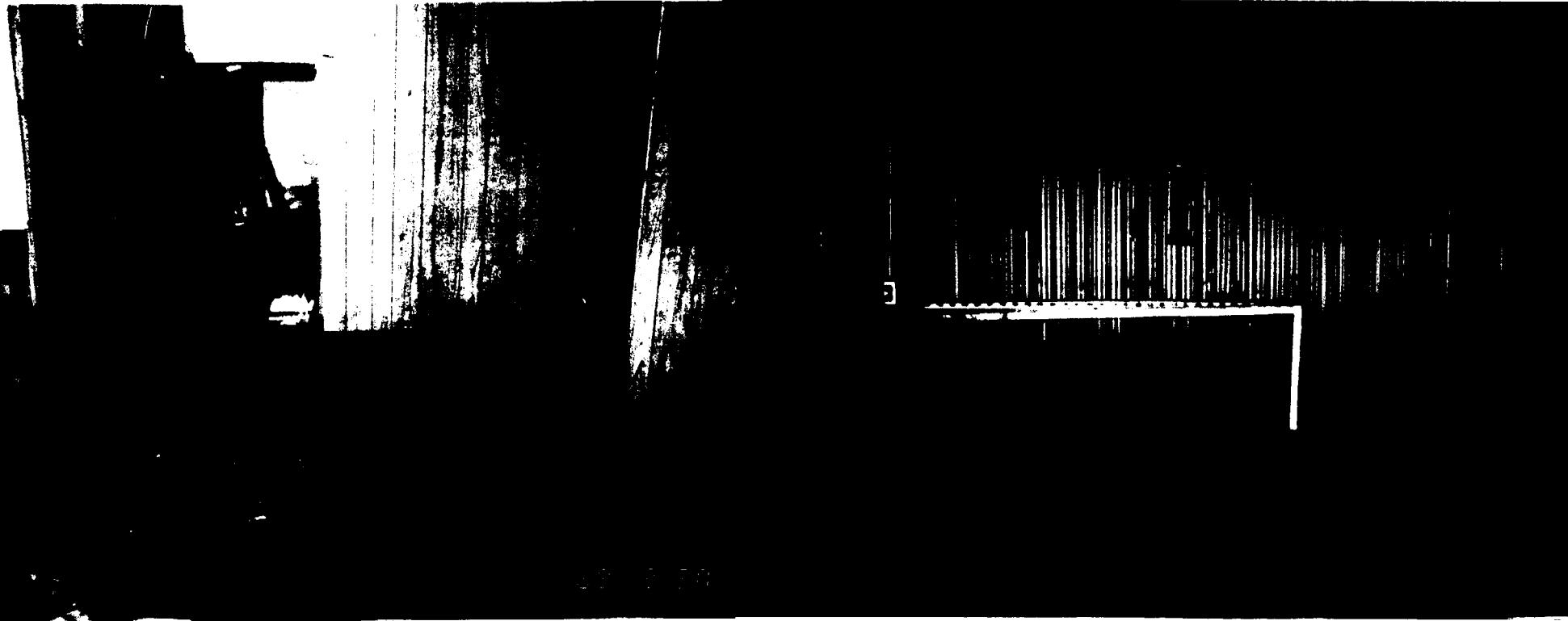
Film: Kodak **ASA:** 100

TDD#: 8809-14-1779

Time: 0912
Witness: Ulmer

Location of Negative:

Atlanta TAT Office



PHOTO# 7

**OFFICIAL PHOTOGRAPH
ENVIRONMENTAL PROTECTION AGENCY**

Subject: Water-spill in office area.

Location: Covington, Newton County, Georgia

Date: 28 September 1988

Time: 0912

Photographer: Wynn

Film: Kodak **ASA:** 100

TDD#: 8809-14-1779

Witness: Ulmer

Location of Negative:

Atlanta TAT Office

PHOTO# 8

**OFFICIAL PHOTOGRAPH
ENVIRONMENTAL PROTECTION AGENCY**

Subject: Pipes hanging from ceiling of building.

Location: Covington, Newton County, Georgia

Date: 28 September 1988

Time: 0914

Photographer: Wynn

Film: Kodak **ASA:** 100

TDD#: 8809-14-1779

Witness: Ulmer

Location of Negative:

Atlanta TAT Office



PHOTO# 9

OFFICIAL PHOTOGRAPH
ENVIRONMENTAL PROTECTION AGENCY

Subject: Spill ink and/or dye.

Location: Covington, Newton County, Georgia

Date: 28 September 1988

Photographer: Wynn

Film: Kodak **ASA:** 100

TDD#: 8809-14-1779

Time: 0915

Witness: Ulmer

Location of Negative:

Atlanta TAT Office

PHOTO# 10

OFFICIAL PHOTOGRAPH
ENVIRONMENTAL PROTECTION AGENCY

Subject: Ceiling view of pipes tied off at the end.

Location: Covington, Newton County, Georgia

Date: 28 September 1988

Time: 0915

Photographer: Wynn

Film: Kodak **ASA:** 100

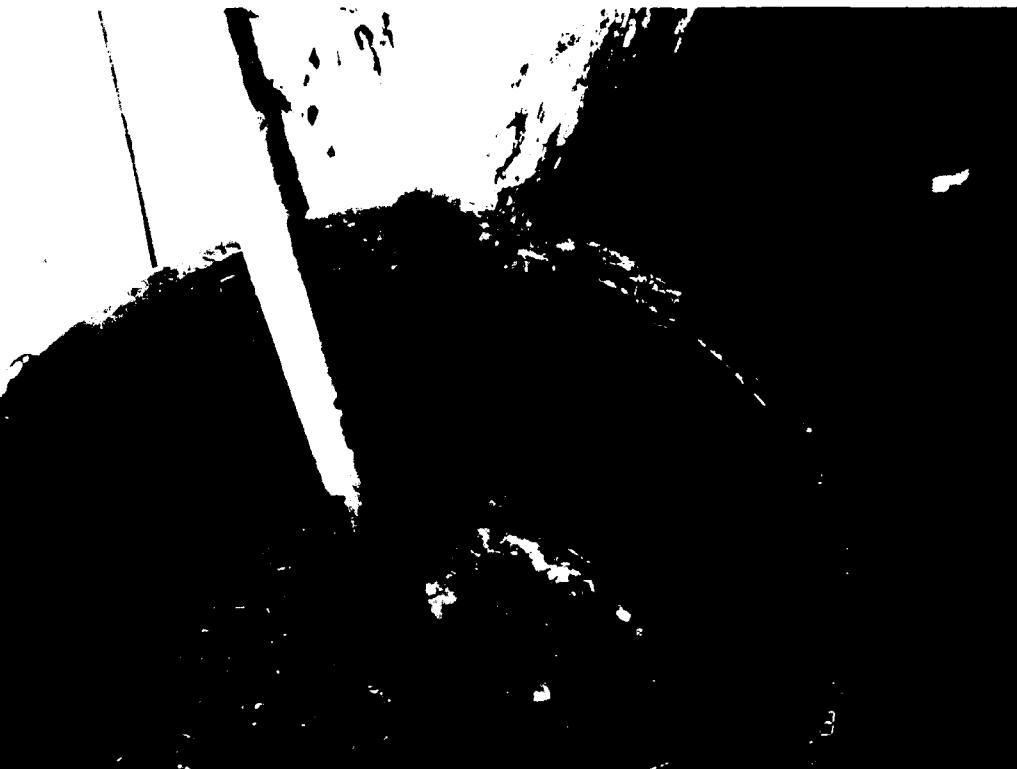
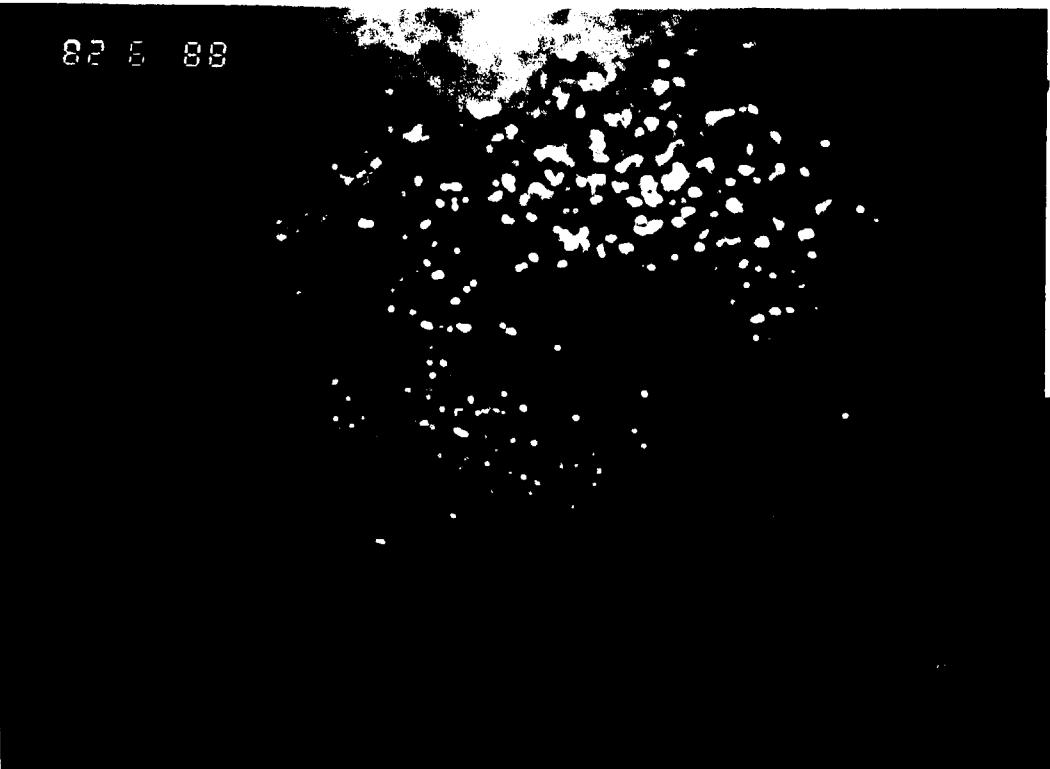
TDD#: 8809-14-1779

Witness: Ulmer

Location of Negative:

Atlanta TAT Office

825 88



PHOTO# 11

**OFFICIAL PHOTOGRAPH
ENVIRONMENTAL PROTECTION AGENCY**

Subject: Spilled ink and/or dye on floor of warehouse.

Location: Covington, Newton County, Georgia

Date: 28 September 1988

Time: 0916

Photographer: Wynn

Witness: Ulmer

Film: Kodak **ASA:** 100

Location of Negative:

TDD#: 8809-14-1779

Atlanta TAT Office

PHOTO# 12

**OFFICIAL PHOTOGRAPH
ENVIRONMENTAL PROTECTION AGENCY**

Subject: Waste drum containing rags, inks and/or dyes.

Location: Covington, Newton County, Georgia

Date: 28 September 1988

Photographer: Wynn

Time: 0916

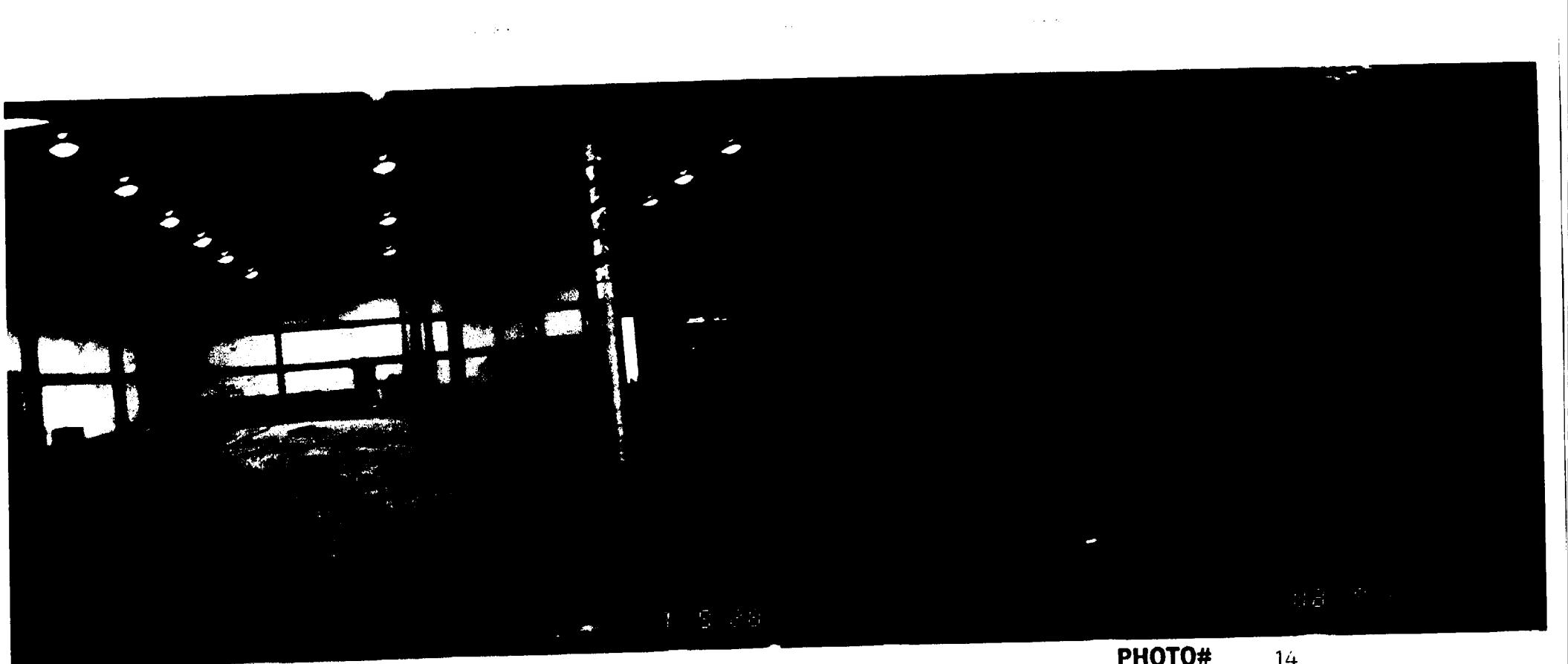
Witness: Ulmer

Film: Kodak **ASA:** 100

TDD#: 8809-14-1779

Location of Negative:

Atlanta TAT Office



PHOTO# 13
OFFICIAL PHOTOGRAPH
ENVIRONMENTAL PROTECTION AGENCY

Subject: The forklift enters building to continue initial staging of drums.

Location: Covington, Newton County, Georgia

Date: 28 September 1988 **Time:** 0918

Photographer: Wynn **Witness:** Ulmer

Film: Kodak **ASA:** 100

TDD#: 8809-14-1779

Location of Negative:
Atlanta TAT Office

PHOTO# 14
OFFICIAL PHOTOGRAPH
ENVIRONMENTAL PROTECTION AGENCY

Subject: Tire tracks on the floor of building floor heavily deposited with dirt, inks and dyes.

Location: Covington, Newton County, Georgia

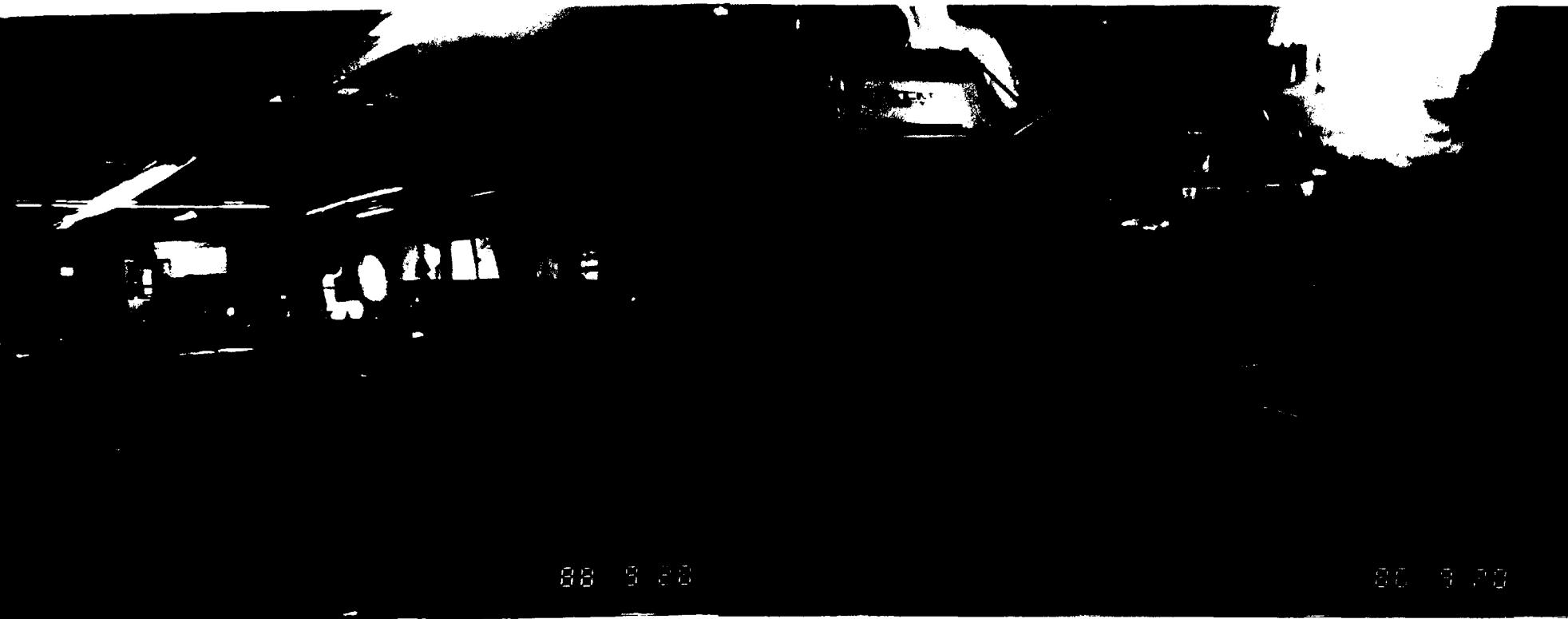
Date: 28 September 1988 **Time:** 0918

Photographer: Wynn **Witness:** Ulmer

Film: Kodak **ASA:** 100

TDD#: 8809-14-1779

Location of Negative:
Atlanta TAT Office



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88 9 88

PHOTO# 15

**OFFICIAL PHOTOGRAPH
ENVIRONMENTAL PROTECTION AGENCY**

Subject: Haztech contractor trying to open roll-up door which was blocked by drums on the opposite side.

Location: Covington, Newton County, Georgia

Date: 28 September 1988

Photographer: Wynn

Film: Kodak **ASA:** 100

TDD#: 8809-14-1779

Time: 0920

Witness: Ulmer

Location of Negative:

Atlanta TAT Office

PHOTO# 16

**OFFICIAL PHOTOGRAPH
ENVIRONMENTAL PROTECTION AGENCY**

Subject: Haztech contractor using forklift to carry 5 gallon drums to staging area.

Location: Covington, Newton County, Georgia

Date: 28 September 1988

Photographer: Wynn

Film: Kodak **ASA:** 100

TDD#: 8809-14-1779

Time: 0920

Witness: Ulmer

Location of Negative:

Atlanta TAT Office



PHOTO# 17

**OFFICIAL PHOTOGRAPH
ENVIRONMENTAL PROTECTION AGENCY**

Subject: Haztech contractor on forklift moving 5 gallon drums to staging area.

Location: Covington, Newton County, Georgia

Date: 28 September 1988

Time: 0925

Photographer: Wynn

Witness: Ulmer

Film: Kodak **ASA:** 100

Location of Negative:

TDD#: 8809-14-1779

Atlanta TAT Office

PHOTO# 18

**OFFICIAL PHOTOGRAPH
ENVIRONMENTAL PROTECTION AGENCY**

Subject: Haztech contractor placing 50 gallon drums in staging area in front of discarded equipment.

Location: Covington, Newton County, Georgia

Date: 28 September 1988

Time: 0925

Photographer: Wynn

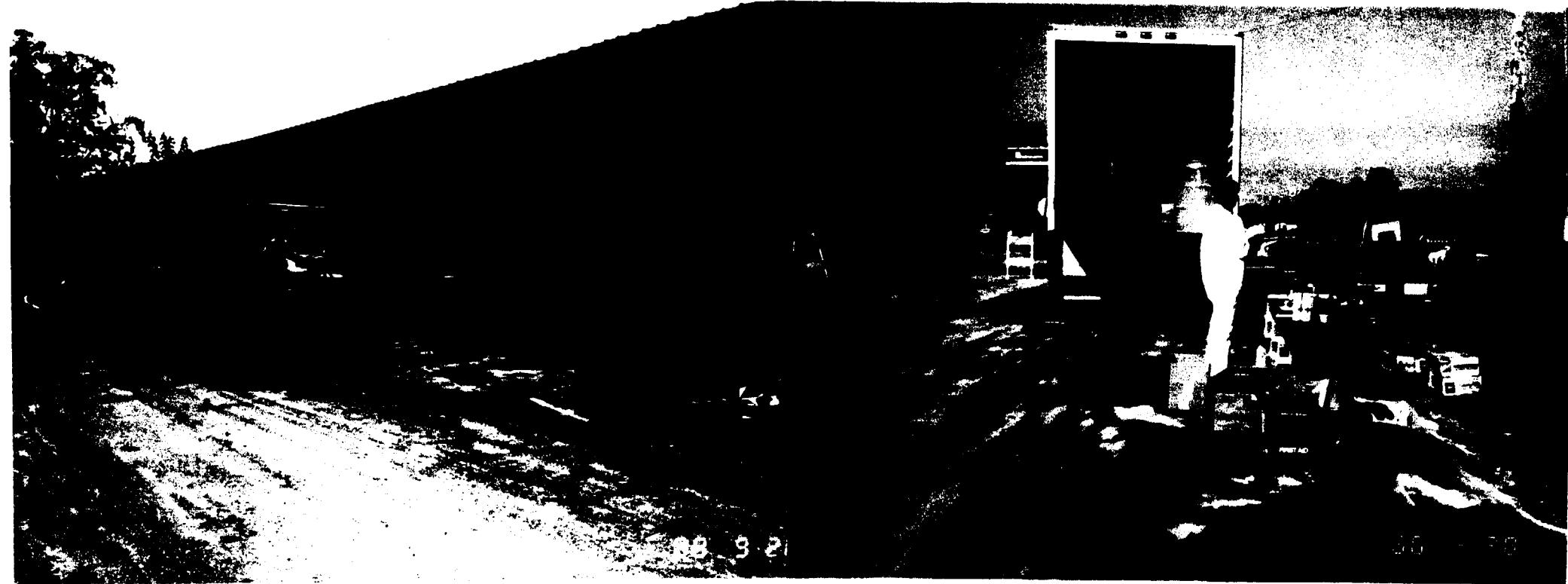
Witness: Ulmer

Film: Kodak **ASA:** 100

Location of Negative:

TDD#: 8809-14-1779

Atlanta TAT Office



19

PHOTO#
OFFICIAL PHOTOGRAPH
ENVIRONMENTAL PROTECTION AGENCY

Subject: Forklift operator placing 55-gallon drum onto pallet.

Location: Covington, Newton County, Georgia

Date: 28 September 1988

Time: 0928

Photographer: Wynn

Film: Kodak **ASA:** 100

TDD#: 8809-14-1779

20

PHOTO#
OFFICIAL PHOTOGRAPH
ENVIRONMENTAL PROTECTION AGENCY

Subject: Contractor setting up decontamination area.

Location: Covington, Newton County, Georgia

Date: 28 September 1988

Time: 0930

Photographer: Wynn

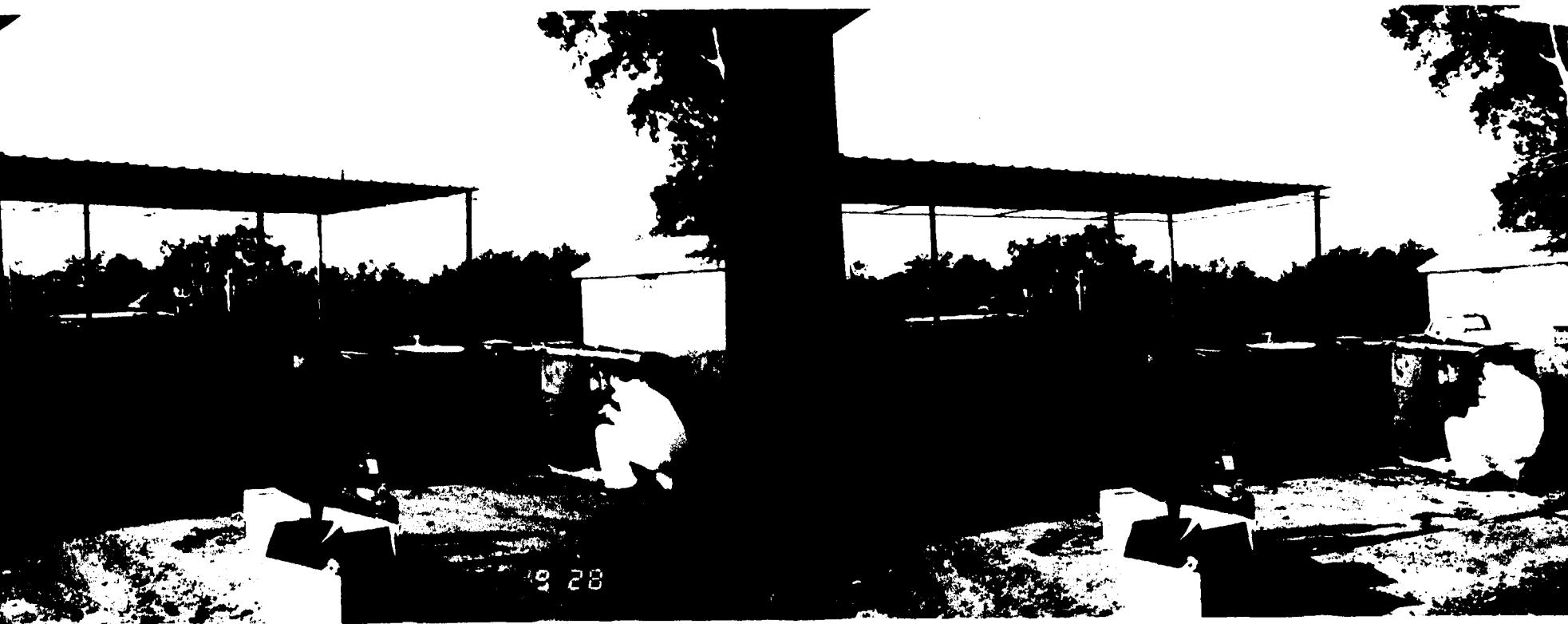
Film: Kodak **ASA:** 100

TDD#: 8809-14-1779

Witness: Ulmer

Location of Negative:

Atlanta TAT Office



PHOTO# 21

**OFFICIAL PHOTOGRAPH
ENVIRONMENTAL PROTECTION AGENCY**

Subject: Contractor begins numbering and categorization of drums.

Location: Covington, Newton County, Georgia

Date: 28 September 1988

Time: 1005

Photographer: Wynn
Film: Kodak **ASA:** 100

TDD#: 8809-14-1779

Witness: Ulmer

Location of Negative:

Atlanta TAT Office

PHOTO# 22

**OFFICIAL PHOTOGRAPH
ENVIRONMENTAL PROTECTION AGENCY**

Subject: Numbering of drums by Haztech contractor.

Location: Covington, Newton County, Georgia

Date: 28 September 1988

Time: 1015

Photographer: Wynn
Film: Kodak **ASA:** 100

TDD#: 8809-14-1779

Witness: Ulmer
Location of Negative:

Atlanta TAT Office



23

PHOTO# 23
OFFICIAL PHOTOGRAPH
ENVIRONMENTAL PROTECTION AGENCY

Subject: Contractor proceeding dressing in "Level C" to sample drums.

Location: Covington, Newton County, Georgia

Date: 28 September 1988

Time: 1045

Photographer: Wynn

Witness: Ulmer

Film: Kodak **ASA:** 100

Location of Negative:

TDD#: 8809-14-1779

Atlanta TAT Office



28 9 88

24

PHOTO# 24
OFFICIAL PHOTOGRAPH
ENVIRONMENTAL PROTECTION AGENCY

Subject: Contractors observing drums while the characterization continues.

Location: Covington, Newton County, Georgia

Date: 28 September 1988

Time: 1050

Photographer: Wynn

Witness:

Film: Kodak **ASA:** 100

Ulmer

Location of Negative:

Atlanta TAT Office

TDD#: 8809-14-1779



PHOTO# 25

OFFICIAL PHOTOGRAPH
ENVIRONMENTAL PROTECTION AGENCY

Subject: Contractor prepares to sample drums.

Location: Covington, Newton County, Georgia

Date: 28 September 1988

Time: 1120

Photographer: Wynn

Film: Kodak **ASA:** 100

TDD#: 8809-14-1779

Witness: Ulmer

Location of Negative:

Atlanta TAT Office

PHOTO# 26

OFFICIAL PHOTOGRAPH
ENVIRONMENTAL PROTECTION AGENCY

Subject: Contractor placing sample in jar.

Location: Covington, Newton County, Georgia

Date: 28 September 1988

Time: 1128

Photographer: Wynn

Film: Kodak **ASA:** 100

TDD#: 8809-14-1779

Witness: Ulmer

Location of Negative:

Atlanta TAT Office



PHOTO# 27

**OFFICIAL PHOTOGRAPH
ENVIRONMENTAL PROTECTION AGENCY**

Subject: Haztech contractor takes sample via drum thief tube and places in sample jar.

Location: Covington, Newton County, Georgia

Date: 28 September 1988

Time: 1129

Photographer: Wynn

Witness: Ulmer

Film: Kodak **ASA:** 100

Location of Negative:

TDD#: 8809-14-1779

Atlanta TAT Office

PHOTO# 28

**OFFICIAL PHOTOGRAPH
ENVIRONMENTAL PROTECTION AGENCY**

Subject: Haztech contractors taking samples from drums one (1) through forty-eight (48) via drum thief tubes.

Location: Covington, Newton County, Georgia

Date: 28 September 1988

Time: 1135

Photographer: Wynn

Witness: Ulmer

Film: Kodak **ASA:** 100

Location of Negative:

TDD#: 8809-14-1779

Atlanta TAT Office



29

PHOTO#**OFFICIAL PHOTOGRAPH
ENVIRONMENTAL PROTECTION AGENCY**

Subject: Haztech contractor placing sample into jar.

Location: Covington, Newton County, Georgia

Date: 28 September 1988

Time: 1120

Photographer: Wynn

Witness: Ulmer

Film: Kodak **ASA:** 100

Location of Negative:

TDD#: 8809-14-1779

Atlanta TAT Office

30

PHOTO#**OFFICIAL PHOTOGRAPH****ENVIRONMENTAL PROTECTION AGENCY**

Contractor requesting additional drum thief tubes while sample is being taken and placed into jars.

Subject:

Location: Covington, Newton County, Georgia

Date: 28 September 1988

Time: 1440

Photographer: Wynn

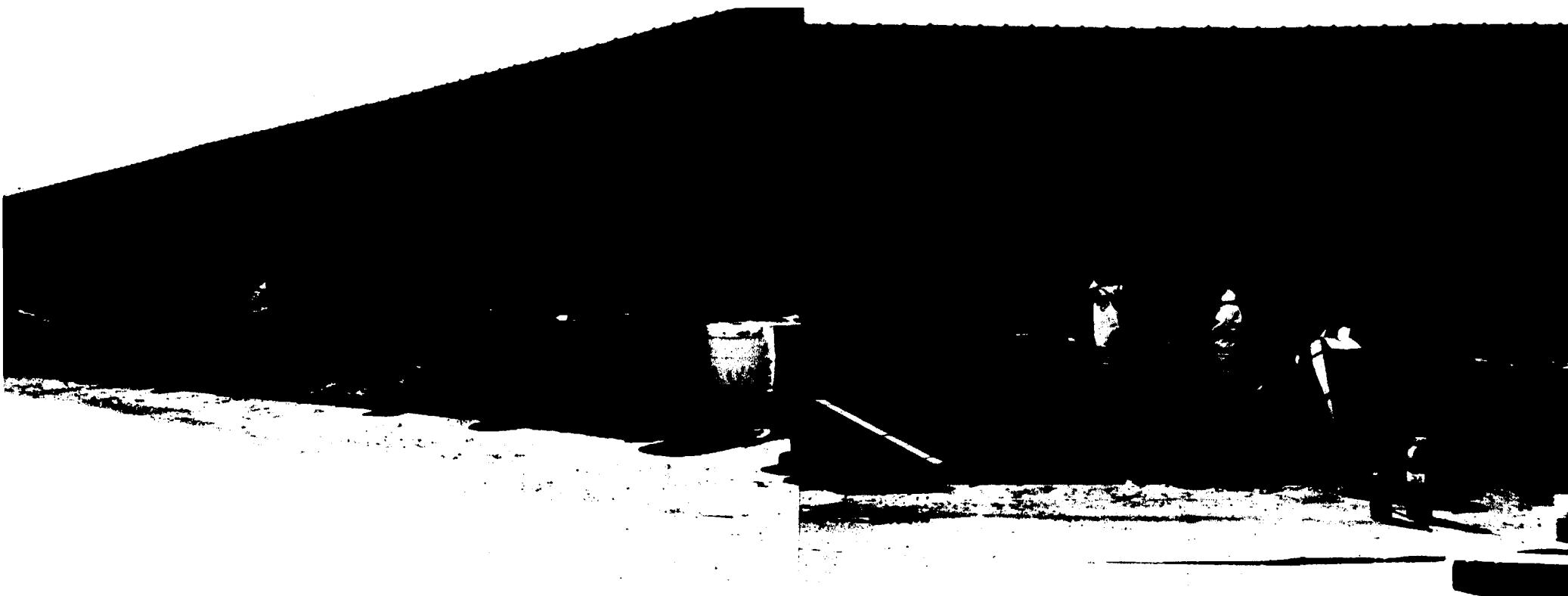
Ulmer

Film: Kodak **ASA:** 100

Location of Negative:

TDD#: 8809-14-1779

Atlanta TAT Office



PHOTO# 31

**OFFICIAL PHOTOGRAPH
ENVIRONMENTAL PROTECTION AGENCY**

Subject: Contractor continue to sample drum's contents.

Location: Covington, Newton County, Georgia

Date: 28 September 1988

Time: 1445

Photographer: Wynn

Witness: Ulmer

Film: Kodak **ASA:** 100

Location of Negative:

TDD#: 8809-14-1779

Atlanta TAT Office

PHOTO# 32

**OFFICIAL PHOTOGRAPH
ENVIRONMENTAL PROTECTION AGENCY**

Subject: Contractor characterizes drum's contents as a sample is placed into sample jars.

Location: Covington, Newton County, Georgia

Date: 29 September 1988

Photographer: Wynn

Film: Kodak **ASA:** 100

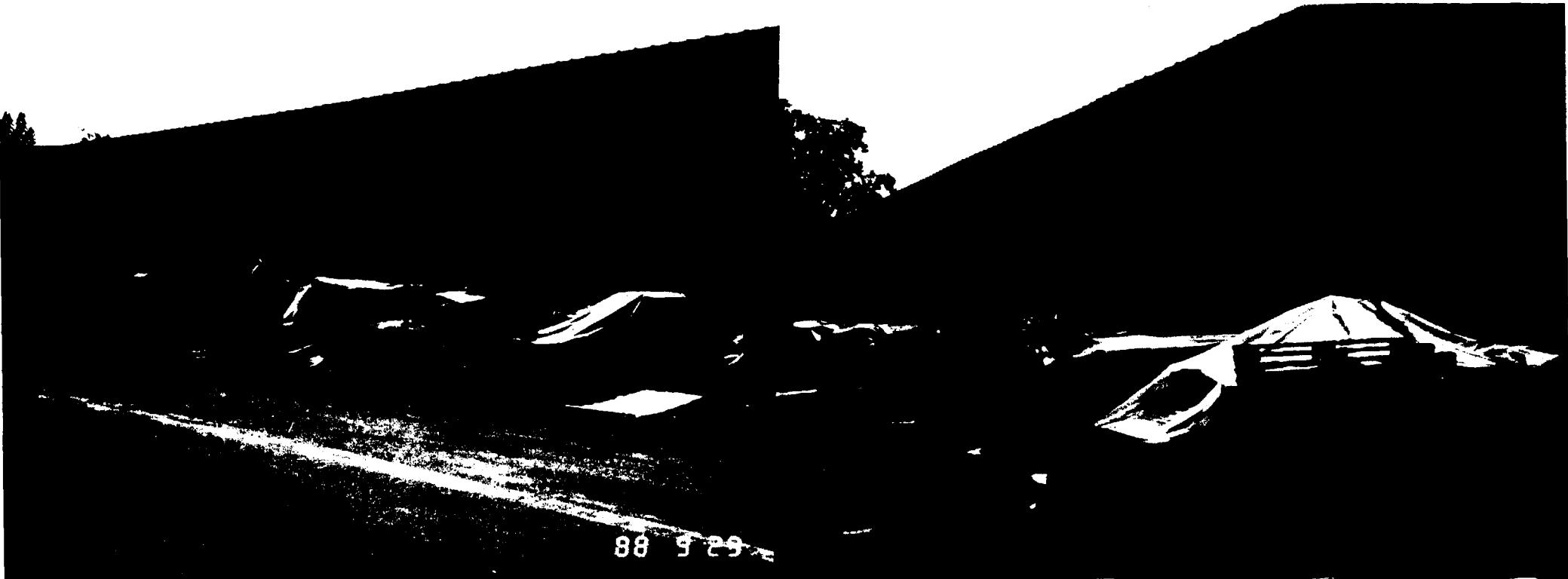
TDD#: 8809-14-1779

Time: 1450

Witness: Ulmer

Location of Negative:

Atlanta TAT Office



88 929

PHOTO# 33

OFFICIAL PHOTOGRAPH
ENVIRONMENTAL PROTECTION AGENCY

Subject: Haztech contractors covering drums with plastic sheeting after sampling has been completed.

Location: Covington, Newton County, Georgia

Date: 29 September 1988

Time: 1430

Photographer: Wynn

Witness: Ulmer

Film: Kodak **ASA:** 100

Location of Negative:

TDD#: 8809-14-1779

Atlanta TAT Office

PHOTO# 34

OFFICIAL PHOTOGRAPH
ENVIRONMENTAL PROTECTION AGENCY

Subject: All drums have been covered. The pallets were used to keep sheeting from blowing off the drums.

Location: Covington, Newton County, Georgia

Date: 29 September 1988

Time: 1435

Photographer: Wynn

Witness: Ulmer

Film: Kodak **ASA:** 100

Location of Negative:

TDD#: 8809-14-1779

Atlanta TAT Office

APPENDIX B

TAT Sampling Activities Report

1.) Table I - Sample Descriptions

SPECTRUM PRINTING
SAMPLING ACTIVITIES

COVINGTON, NEWTON COUNTY, GEORGIA

TO: Bill Klutz, OSC
EPA, Region IV

FROM: Teri Wynn
TAT, Region IV

TECHNICAL DIRECTION DOCUMENT
TDD #04-8810-26-2026
#04-8810-26a-2213
TAT #04-F-03026

DATE: 05 May 1989

TECHNICAL ASSISTANCE TEAM
Roy F. Weston, Inc./Major Programs Division
100 Atlanta Technology Center, Suite 120
1575 Northside Drive
Atlanta, Georgia 30318

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I. INTRODUCTION

The Region IV Technical Assistance Team (TAT) of Roy F. Weston conducted an investigation and assessment of the Spectrum Printing Site on the 28 and 29 September 1988. The investigation performed by TAT members Teri Wynn, Christi Ulmer, and Karen Jarrett-Gill was conducted at the request of the U. S. EPA Region IV in accordance with the provisions of Technical Direction Document (TDD) #04-8809-14 and #04-8810-26. OSC Bill Klutz also assisted in the investigation. The purpose of this investigation was to document drum contents at the Spectrum Printing Site.

II. SITE CHARACTERIZATION

A. Site Description

The site referred to herein as the Spectrum Printing Site is located in Covington, Newton County, Georgia's commercial district at 4132 US Hwy 278. The coordinates of the site are latitude 33 degrees 36 minutes and 15 seconds and longitude 83 degrees 52 minutes and 3 seconds. The approximately 258 drums of interest are stockpiled on a paved area behind a medium sized industrial building formerly known as Spectrum Printing. A public road is contiguous to this paved area and from the road open drums containing printing process and waste are observable and accessible.

B. History and Waste Disposal Practices

From January 1987 until May 1987, the building at 4132 US Hwy. 278 in Covington, Georgia was used as a printing company called Spectrun Printing. Spectrun Printing's owner

Ralph Preddy filed for bankruptcy in May of 1987. Prior to January 1987, the building was used for the printing of a newspaper, The Covington News. The property is now in the trusteeship of The Law Firm of Richard Ellenburg of Atlanta.

There is no physical barrier to prevent access to the material in question and open drums are within 15 feet of a road. Additionally, overturned and leaking drums have released their contents onto the paved area where they are staged. Discharged material was observed on the soil beneath the terminus of a pipe going into the building.

Since environmental releases of suspect compounds were observed on the site, the statutory authority of the Environmental Response, Compensation and Liability Act (CERCLA) was invoked in the form of sampling and analysis of substances involved to aid in determining if an immediate response is necessary to protect the public health and welfare and the environment.

C. Potential for Migration of Wastes Offsite

Since the wastes in question are located on a paved surface in a municipal area, migration of a contaminated rain runoff from spillage and drums will be accelerated by the relatively impervious paved surfaces it is traveling on until it reaches a receiving stream which would be dried Indian Creek which flows south.

The city of Covington's water filtration plant is located

within 0.7 of a mile east of Spectrum Printing Site. The plant has a reservoir which is recharged with water piped from the Alcovy River which is several miles north of Covington. Since the flow of the likely drainage path for the site flows south and the filtration plant receives its water from several miles north, the chance of contamination of the city's water supply from the Spectrum Printing Site is minimal.

III. DISCUSSION OF SAMPLING ACTIVITIES

Sampling activities were comprised of air monitoring and the sampling of drums. Table I presents the sample number, description of sample type, and analytical parameters. Laboratory analysis results are presented in Annex A.

Air monitoring using an HNu Photoionization Detector with an 11.7 EV probe detected the following: drum #13 - 150 ppm above background; drum #20 - 150 above background; and drum #215 - 100 ppm above background.

Subsequently, all drums were opened and sampled and placed in sample jars. Five different waste streams consisting of water, inks, isopropyl alcohol, adhesives, and contaminated dirts and sludges were composited. The waste streams were analyzed in order to determine proper disposal of the wastes.

IV. METHODOLOGY AND QUALITY CONTROL

A. Methodology

All sample collection, sample preservation and chain-of-custody procedures used during this investigation were in

accordance with the Environmental Services Division (ESD) procedures for field sampling.

Analysis for compatibility was performed by Accura Analytical Laboratory, Decatur, Georgia. Samples were grouped under the following categories: acidic inorganic liquids, neutral inorganic liquids, neutral organic liquids, sludge hydrocarbons, liquid hydrocarbons, base inorganic liquids, and acid organic liquids.

B. Quality Control

Quality control of the lab data was performed by Accura laboratory, and was in accordance with the Quality Control procedures specified in the EPA methods used.

TABLE I - SAMPLE DESCRIPTIONS

Sample Code	Description	Parameter
1	Black sludge	Compatibility
2	Black sludge	"
3	Black semi-solid	"
4	Liquid - black on top clear on bottom	"
5	Amber color	"
6	Purple, pH - 1-2 by paper sticks	"
7	Semi-solid	"
8	Black sludge	"
9	Brown-black solid	"
10	Red-black sludge	"
11	Black semi-solid	"
12	Brown liquid	"
13	Clear liquid HNu reading = 150 ppm	"
14	Oil & Water liquid	"
15	Black liquid	"
16	Black liquid	"
17	Black-red semi-solid	"
18	Solid	"
19	Solid	"
20	Black liquid	"
21	Orange rust sludge	"
22	Liquid	"
23	Liquid - turbid w/brown	"
24	Liquid - dark w/solids - Empty drum	No Sample
25	Liquid	"
26	Whitish	Compatibility
27	Sludge, clear, yellow top layer w/red & black solids on bottom layer	"
28	Sludge - pink/black	"
29	Semi-solid - black	"
30	Sludge - liquid, turbid, oily, water - top layer, yellow sludge - bottom layer	"
31	Liquid - turbid, milky pH - 5	"
32	Liquid - black	"
33	Liquid	No Sample
34	Black	"
35	Black liquid	"
36	Sludge - black	Compatibility
37	Sludge - yellow, black	"
38	Sludge - purple, oil layer on top	"
39	Black liquid	No Sample
40	Sludge on bottom of drum	Compatibility
41	Trash in drum only	No Sample
42	Black	Compatibility
43	Black liquid	"
44	Bright, light-blue Soupy	"

Table I - Sample Descriptions
(continued)

Sample Code	Description	Parameter
45	None	"
46	pH - 14	Compatibility
47	None	"
48	None	"
49	None	"
50	Liquid - turbid	"
51	Black/purple	"
52	Liquid - gray, Light blue	"
53	Empty	No Sample
54	Bright red	Compatibility
55	Red	"
56	Red	"
57	Liquid - clear, Black/slimy	"
59	Gray, turbid	"
60	Liquid - gray, Turbid	"
61	Liquid - dark	"
62	Liquid - dark	"
63	Empty	No Sample
64	Empty	No Sample
65	Thick dark semi-solid	Compatibility
66	Solid - maybe purple	"
67	Blue sludge	"
68	Blue sludge	"
69	White sludge, Drum under pressure	"
70	Liquid - light blue	"
	Drum under pressure	
71	Sludge - red, thick	"
72	Empty	No Sample
73	Liquid - turbid, pink/clear, pH - 10	Compatibility
74	Liquid - turbid, brown, pH - 4	"
75	Liquid - turbid, green, pH - 2	"
76	Semi-solid, yellow black/red	"
77	Semi-solid, thick black	"
78	pH <3	"
79	Liquid oxidizer amber, pH = 0	"
80	Amber, pH = 0	"
81	Liquid - amber, clear	"
82	Empty	"
83	Liquid - turbid clear, pH = 4	"

Table I - Sample Descriptions
 (continued)

Sample Code	Description	Parameter
84	Liquid - amber, pH = 0	"
85	Liquid - tan, pH = 7	"
86	Liquid - 2 layers - clear on bottom, pH = 0	"
87	Liquid - 2 layers - clear on bottom, pH = 7, brown floc on top	"
88	None	No Sample
89	None	"
90	None	"
91	Empty	"
92	Empty	"
93	Liquid - oil color, pH = 7 (unable to collect)	-----
94	Empty	No Sample
95	Red paint (empty)	"
96	Liquid - oily 2 phases (green on top, clear on bottom)	Compatibility
97	Liquid - clear, turbid w/black solids, pH = 4	"
98	None	"
99	None	"
100	Liquid - murky	"
101	Sludge/liquid - water on top, black/red goop on bottom	"
102	Solid - blue	No Sample
103	Sludge - red/black blue runny goop	Compatibility
104	Sludge - brown, red, black, blue	"
105	Sludge - pink	"
106	Liquid	No Sample
104 B	Liquid - oil	Compatibility
107	Sludge - yellow black	"
108	Sludge - liquid, turbid blue w/mosquito larvae	"
109	Sludge - turbid, water on top, sludge on bottom	"
110	Sludge - black	"
111	Liquid - oil	"
112	Solid - trash	No Sample
113	Solid - trash	"
114	Liquid - brown	Compatibility
115	Liquid - dark brown	"
116	Liquid	"
117	Sludge - black red	"
118	Semi-solid - black	"
119	Sludge - black	"
120	HNu reading = 150 ppm above background	No Sample
121	Solid	"

Table I - Sample Descriptions
 (continued)

Sample Code	Description	Parameter
122	Sludge - black, yellow, red	Compatibility
123	Liquid - purple, thin	"
	pH = 7	
124	Sludge - liquid, grey on top, green on bottom	"
125	Sludge - black/blue	"
126	Liquid - slightly turbid	"
127	Liquid - clear	"
	pH = 7	
128	Liquid - clear	"
129	Solid - trash	No Sample
130	Solid - trash	"
131	Solid - trash	"
132	Trash	"
133	Sludge - liquid - grown murky, pH = 7	Compatibility
134	Liquid - brown	"
135	Liquid - cream/murky	"
136	Sludge/liquid - borwn/black, sludge on bottom, rainwater, floating scabs on top	"
137	Empty	No Sample
138	Liquid	Compatibility
139	Liquid - murky, pH = 7	No Sample
	Empty	
140	Liquid - amber, pH = 7	Compatibility
141	Solid trash	No Sample
142	Sludge - liquid, black water on top, sludge on bottom	Compatibility
143	Black, pH = 0	"
144	Trash	No Sample
145	Trash	"
146	Liquid - white murky, pH = 5	Compatibility
147	Trash	No Sample
148	Solid - trash	"
149	Liquid - cream murky	Compatibility
	pH = 7	"
150	Semi-solid/sludge yellow	"
151	Liquid - amber, pH = 7	"
152	Liquid - oil	"
153	Liquid - brown, pH = 7	"
154	Liquid - amber (oil), pH = 7	"
155	Liquid - oil	"
156	Sludge - black	"
157	Sludge - liquid, red	"
158	Liquid - clear, pH = 4	"
159	Liquid slurry - white	"
160	Liquid - gray, pH = 4	"

APPENDIX C
TAT Sampling Plan Report

SPECTRUM PRINTING

SAMPLING PLAN

COVINGTON, NEWTON COUNTY, GEORGIA

**TO: Bill Klutz, OSC
EPA, Region IV**

**FROM: Teri Wynn
TAT, Region IV**

**TECHNICAL DIRECTION DOCUMENT
TDD #04-8810-26-2026
#04-8810-26a-2213
TAT #04-F-03026**

DATE: 05 May 1989

TECHNICAL ASSISTANCE TEAM

Roy F. Weston, Inc./Major Programs Division
100 Atlanta Technology Center, Suite 120
1575 Northside Drive
Atlanta, Georgia 30318

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- I. Objective**
- II. Site Background**
- III. Field Procedures**
 - A. Concept of Operation**
 - B. Sampling Locations**
 - C. Coordinating Instructions**
 - D. Personnel Responsibility**
- IV. Logistics**
- V. Quality Control**
 - A. Sample Tags**
 - B. Chain-of-Custody Procedures**

I. OBJECTIVE

Under the provisions of Technical Direction Document (TDD) #04-8810-26, Region IV, U. S. Environmental Protection Agency (EPA) tasked Roy F. Weston Inc. Technical Assistance Team (TAT) to conduct on-site monitoring of Spectrum Printing in Covington, Newton County, Georgia.

The objectives of this assessment are to document a release to the environment of a hazardous substance, pollutant or contaminant as mandated by Section 104e of the Comprehensive Environmental Response Compensation Liability Act (CERCLA). In analyzing the samples obtained to establish such a release has occurred, information will be gained on the substances involved which will provide necessary guidance for the ultimate treatment and/or disposal of the wastes.

II. SITE BACKGROUND

The site referred to herein as the Spectrum Printing Site is located in Covington, Georgia'a commercial district at 4132 US Hwy 278. The approximately 258 drums of interest are stockpiled on a paved area behind a medium sized industrial building formerly known as Spectrum Printing. There is no physical barrier to prevent access to the material in question and open drums are within 15 feet of a road. Additional overturned and leaking drums have released their contents onto the paved area where they are staged.

III. FIELD PROCEDURES

The site will be probed with an HNu Photoionization Detector and monitored prior to performing actual sampling to insure safety protection throughout sampling operations. Sampling will be conducted as per U. S. EPA Engineering Support Branch Standard Operating Procedures and Quality Assurance Manual.

A. Concept of Operation

The site assessment and monitoring of the Spectrum Printing Site will be conducted to insure efficient and safe work. Samples will be collected from each drum in such a manner as to document a release to the environment while at the same time categorizing the suspect drums as possibly similar groups using compatibility data nd the general appearance of the material in them for guidance.

B. Sampling Locations

All of the two hundred and fifty eight drums will be opened, sampled, and the general appearance and characteristics noted. Using this information and information obtained from analytical data, compatibility for possible bulking will be analyzed.

C. Coordinating Instructions

During the course of the sampling procedures, access to the site will be controlled by OSC Bill Klutz, contractors, Haztech, and the members of TAT.

D. Personnel Responsibility

OSC - Oversee the implementation of the immediate removal plan and the site safety plan.

Contractor (Haztech) - Perform hazard categorization and staging, sample drums.

Technical Assistance Team (TAT) - Overseeing of sampling through OSC, monitoring on-site contractor.

IV. LOGISTICS

The following equipment will be required for each sampler to dress in "Level C" protection; approved GMC-H cartridges with appropriately fitted face mask, disposable Sernax tyvek suit, disposable booties, and duct tape to seal openings.

The following equipment will be needed for the collection of samples: 510 - 8 oz. glass jars, labels, tags, sample sheets, coolers, stainless steel spoons, paper towels, caution tape, glass sampling pipettes, stainless steel non-sparking bung wrench, and pyrex dishes.

V. QUALITY CONTROL

All samples will be collected using clean sampling tubes, spoons and dishes. Collected samples will then be transferred into Superfund Respoitory Jar repository glass jars.

Chain-of-Custody procedures will be sued to maintain and document sample possession for enforcement purposes. The principal documents used to identify samples and to document possession will be; Sample Tags and Chain-of-Custody Records.

A. Sample Tags

The Sample Tag will contain an appropriate place for designating the sample as a composite and identifying the type of sample collected for analysis. The Sample Tags will be securely attached to each sample.

The information recorded on an EPA Sample Tag will include: sample number, project code, station number, date, time, station location, samplers, tag numbers, and remarks.

B. Chain-of-Custody Procedures

- a. The person who actually performs the sampling will be personally responsible for the care and custody of the samples collected until they are transferred or dispatched properly.
- b. Sample Tags will be completed for each sample using waterproof ink.
- c. The Sampling Coordinator will review all field activities to determine whether proper custody procedures are followed during the field work and decide if additional samples are required.

APPENDIX D
Compatibility Analyses Report

ACCURA ANALYTICAL LABORATORY, INC.

DATA SHEET FOR COMPATIBILITY TEST

LABORATORY ID # 1235

SAMPLE STATION# 1

PHYSICAL OBSERVATION:

PHYSICAL STATE: SOLID _____ LIQUID _____ SLUDGE linit

VISCOSITY: FLUID _____ OILY _____ VISCOSUS ✓

COLOR: red color's CLARITY: CLEAR _____ OPAQUE ✓

SAMPLE PH: _____ VOLATILITY IN PPM: HNU _____ OVA _____

SOLUBILITY TESTING

SOLUBLE IN WATER: pH OF SOLUTION: _____

HEAT EVOLVED: YES NO

GAS EVOLVED: YES NO

INSLUBLE IN WATER: LIGHTER THAN WATER: ✓

HEAVIER THAN WATER: _____

SOLUBILITY IN METHYLENE CHLORIDE: SOL ✓ INSOL _____

SOLUBILITY IN 5% HCL: SOLUBLE _____ INSOLUBLE ✓

GAS EVOLVED: YES NO ✓

pH OF EVOLVED GAS

SULFIDE TEST OF EVOLVED GAS: POS NEG ✓

OXIDIZER TEST: POS NEG ✓

1255
⑥

SOLUBILITY IN 5% NaOH: SOLUBLE _____ INSOLUBLE

GAS EVOLVED: YES NO

pH OF EVOLVED GAS _____ -

CYANIDE TEST: POS NEG

NH4 OR AMINE TEST: POS NEG

SOLUBILITY IN NaHCO3: SOLUBLE _____ INSOLUBLE

GAS EVOLVED: YES NO

INGNITABILITY TESTING

MELTS: YES NO DETONATES: YES NO

IGNITES: YES NO SUPPORTS FLAME: YES NO

ASH: YES NO CARBON RESIDUE: YES NO

COLOR OF FLAME: _____ pH OF COMBUSTION GASES: -

EVAPORATES BEFORE IGNITING: YES NO

HALOGEN FLAME TEST

GREEN FLAME: POSITIVE _____ NEGATIVE

PEROXIDE TESTING

ORGANIC PEROXIDES: POSITIVE _____ NEGATIVE

PCB TESTING

CHLOR-N-OIL PCB SCREEN: POSITIVE _____ NEGATIVE

PERCHLORIC NITRIC ACID TEST

NITRATES or CHLORATES: POSITIVE _____ NEGATIVE

NOTES: such as hydrocarbons

ACCURA ANALYTICAL LABORATORY, INC.

DATA SHEET FOR COMPATIBILITY TEST

LABORATORY ID # 1236

SAMPLE STATION# 2

PHYSICAL OBSERVATION:

PHYSICAL STATE: SOLID _____ LIQUID SLUDGE _____

(Two Phase)

VISCOSITY: FLUID OILY _____ VISCOSU _____

COLOR: Brown Top CLARITY: CLEAR OPAQUE _____

SAMPLE pH: 7 VOLATILITY IN PPM: HNU _____ OVA _____

SOLUBILITY TESTING

SOLUBLE IN WATER: pH OF SOLUTION: _____

HEAT EVOLVED: YES ____ NO ____

GAS EVOLVED: YES ____ NO ____

INSOLUBLE IN WATER: LIGHTER THAN WATER:

HEAVIER THAN WATER: _____

SOLUBILITY IN METHYLENE CHLORIDE: SOL INSOL _____

SOLUBILITY IN 5% HCL: SOLUBLE _____ INSOLUBLE

GAS EVOLVED: YES ____ NO

pH OF EVOLVED GAS: _____

SULFIDE TEST OF EVOLVED GAS: POS ____ NEG

OXIDIZER TEST: POS ____ NEG

SOLUBILITY IN 5% NaOH: SOLUBLE _____ INSOLUBLE

GAS EVOLVED: YES NO

pH OF EVOLVED GAS _____ -

CYANIDE TEST: POS NEG

NH₄ OR AMINE TEST: POS NEG

SOLUBILITY IN NaHCO₃: SOLUBLE _____ INSOLUBLE

GAS EVOLVED: YES NO

INGNITABILITY TESTING

MELTS: YES NO DETONATES: YES NO

IGNITES: YES NO SUPPORTS FLAME: YES NO

ASH: YES NO CARBON RESIDUE: YES NO

COLOR OF FLAME: Yellow pH OF COMBUSTION GASES: 7

EVAPORATES BEFORE IGNITING: YES NO

HALOGEN FLAME TEST

GREEN FLAME: POSITIVE _____ NEGATIVE

PEROXIDE TESTING

ORGANIC PEROXIDES: POSITIVE _____ NEGATIVE

PCB TESTING

CHLOR-N-OIL PCB SCREEN: POSITIVE _____ NEGATIVE

PERCHLORIC NITRIC ACID TEST

NITRATES or CHLORATES: POSITIVE _____ NEGATIVE

NOTES: Liquid Hydrocarbons

ACCUA ANALYTICAL LABORATORY, INC.

DATA SHEET FOR COMPATIBILITY TEST

LABORATORY ID # 1237

SAMPLE STATION# 3

PHYSICAL OBSERVATION:

PHYSICAL STATE: SOLID _____ LIQUID SLUDGE _____

VISCOSITY: FLUID _____ OILY VISCOSU _____

COLOR: Dark blue CLARITY: CLEAR _____ OPAQUE

SAMPLE pH: 6 VOLATILITY IN PPM: HNU _____ OVA _____

SOLUBILITY TESTING

SOLUBLE IN WATER: pH OF SOLUTION: _____

HEAT EVOLVED: YES _____ NO _____

GAS EVOLVED: YES _____ NO _____

INSLUBLE IN WATER: LIGHTER THAN WATER:
^o
HEAVIER THAN WATER: _____

SOLUBILITY IN METHYLENE CHLORIDE: SOL INSOL _____

SOLUBILITY IN 5% HCL: SOLUBLE _____ INSOLUBLE

GAS EVOLVED: YES _____ NO

pH OF EVOLVED GAS: _____

SULFIDE TEST OF EVOLVED GAS: POS _____ NEG

OXIDIZER TEST: POS _____ NEG

SOLUBILITY IN 5% NaOH: SOLUBLE _____ INSOLUBLE

GAS EVOLVED: YES NO

pH OF EVOLVED GAS _____ -

CYANIDE TEST: POS NEG

NH4 OR AMINE TEST: POS NEG

SOLUBILITY IN NaHCO3: SOLUBLE _____ INSOLUBLE

GAS EVOLVED: YES NO

IGNITABILITY TESTING

MELTS: YES NO _____ DETONATES: YES NO

IGNITES: YES NO SUPPORTS FLAME: YES NO _____

ASH: YES NO CARBON RESIDUE: YES NO _____

COLOR OF FLAME: yellow pH OF COMBUSTION GASES: 7

EVAPORATES BEFORE IGNITING: YES NO

HALOGEN FLAME TEST

GREEN FLAME: POSITIVE _____ NEGATIVE

PEROXIDE TESTING

ORGANIC PEROXIDES: POSITIVE _____ NEGATIVE _____

PCB TESTING

CHLOR-N-OIL PCB SCREEN: POSITIVE _____ NEGATIVE _____

PERCHLORIC NITRIC ACID TEST

NITRATES or CHLORATES: POSITIVE _____ NEGATIVE

NOTES: Liquid Hydrocarbons

DATA SHEET FOR COMPATIBILITY TEST

ACCUURA ANALYTICAL LABORATORY, INC.

SAMPLE STATEMENT# 4

LABORATORY ID # 1238

PHYSICAL OBSERVATION:

PHYSICAL STATE: SOLID LIQUID SLUDGE
 VISCOSITY: FLUID OILY VISCOUS
 COLOR: DARK BROWN CLARITY: CLEAR OPAQUE
 SAMPLE PH: 6 VOLATILITY IN PPM: HNU OVA

SOLUBILITY TESTING

SOLUBLE IN WATER: pH OF SOLUTION:

GAS EVOLVED: YES NO

HEAT EVOLVED: YES NO

INSOLUBLE IN WATER: LIGHTER THAN WATER:

SOLUBILITY IN METHYLENE CHLORIDE: SOL INSOL

GAS EVOLVED: YES NO

pH OF EVOLVED GAS

SULFIDE TEST OF EVOLVED GAS: POS NEG

OXIDIZER TEST: POS NEG

SOLUBILITY IN 5% NaOH: SOLUBLE _____ INSOLUBLE

GAS EVOLVED: YES NO

pH OF EVOLVED GAS _____

CYANIDE TEST: POS NEG

NH₄ OR AMINE TEST: POS NEG

SOLUBILITY IN NaHCO₃: SOLUBLE _____ INSOLUBLE

GAS EVOLVED: YES NO

IGNITABILITY TESTING

MELTS: YES NO

DETONATES: YES NO Takes none

IGNITES: YES NO

SUPPORTS FLAME: YES NO

ASH: YES NO

CARBON RESIDUE: YES NO

COLOR OF FLAME: _____ pH OF COMBUSTION GASES: _____

EVAPORATES BEFORE IGNITING: YES NO

HALOGEN FLAME TEST

GREEN FLAME: POSITIVE _____ NEGATIVE

PEROXIDE TESTING

ORGANIC PEROXIDES: POSITIVE _____ NEGATIVE

PCB TESTING

CHLOR-N-OIL PCB SCREEN: POSITIVE _____ NEGATIVE _____

PERCHLORIC NITRIC ACID TEST

NITRATES or CHLORATES: POSITIVE _____ NEGATIVE

NOTES: Liquid Hydrocarbons

SOLUBILITY IN 5% NaOH: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES NO

pH OF EVOLVED GAS _____

CYANIDE TEST: POS NEG

NH₄ OR AMINE TEST: POS NEG

SOLUBILITY IN NaHCO₃: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES NO

INGNITABILITY TESTING

MELTS: YES NO DETONATES: YES NO

IGNITES: YES NO SUPPORTS FLAME: YES NO

ASH: YES NO CARBON RESIDUE: YES NO

COLOR OF FLAME: yellow pH OF COMBUSTION GASES: 11.11

EVAPORATES BEFORE IGNITING: YES NO

HALOGEN FLAME TEST

GREEN FLAME: POSITIVE _____ NEGATIVE

PEROXIDE TESTING

ORGANIC PEROXIDES: POSITIVE _____ NEGATIVE

PCB TESTING

CHLOR-N-OIL PCB SCREEN: POSITIVE _____ NEGATIVE

PERCHLORIC NITRIC ACID TEST

NITRATES or CHLORATES: POSITIVE _____ NEGATIVE

NOTES: dead organic

ACCUA ANALYTICAL LABORATORY, INC.

DATA SHEET FOR COMPATIBILITY TEST

LABORATORY ID # 1241

SAMPLE STATION# 7

=====

PHYSICAL OBSERVATION:

PHYSICAL STATE: SOLID LIQUID ✓ SLUDGE

VISCOSITY: FLUID ✓ OILY VISCOSUS

COLOR: white CLARITY: CLEAR slurried OPAQUE

SAMPLE pH: 7 VOLATILITY IN PPM: HNU OVA

SOLUBILITY TESTING

SOLUBLE IN WATER: pH OF SOLUTION: 6

HEAT EVOLVED: YES NO ✓

GAS EVOLVED: YES NO ✓

INSLUBLE IN WATER: LIGHTER THAN WATER:

HEAVIER THAN WATER:

SOLUBILITY IN METHYLENE CHLORIDE: SOL INSOL ✓

SOLUBILITY IN 5% HCL: SOLUBLE ✓ INSOLUBLE

GAS EVOLVED: YES NO ✓

pH OF EVOLVED GAS

SULFIDE TEST OF EVOLVED GAS: POS NEG ✓

OXIDIZER TEST: POS NEG ✓

SOLUBILITY IN 5% NaOH: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES NO

pH OF EVOLVED GAS _____ -

CYANIDE TEST: POS NEG

NH₄ OR AMINE TEST: POS NEG

SOLUBILITY IN NaHCO₃: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES NO

IGNITABILITY TESTING

MELTS: YES NO DETONATES: YES NO

IGNITES: YES NO SUPPORTS FLAME: YES NO

ASH: YES NO CARBON RESIDUE: YES NO

COLOR OF FLAME: _____ pH OF COMBUSTION GASES: _____

EVAPORATES BEFORE IGNITING: YES NO

HALOGEN FLAME TEST

GREEN FLAME: POSITIVE _____ NEGATIVE

PEROXIDE TESTING

ORGANIC PEROXIDES: POSITIVE _____ NEGATIVE

PCB TESTING

CHLOR-N-OIL PCB SCREEN: POSITIVE _____ NEGATIVE

PERCHLORIC NITRIC ACID TEST

NITRATES or CHLORATES: POSITIVE _____ NEGATIVE

NOTES: Neutral Inorganic liquid

ACURA ANALYTICAL LABORATORY, INC.

DATA SHEET FOR COMPATIBILITY TEST

LABORATORY ID # 1242

SAMPLE STATION# 8

PHYSICAL OBSERVATION:

PHYSICAL STATE: SOLID LIQUID SLUDGE ✓

VISCOSITY: FLUID OILY VISCOSU✓

COLOR: green/yellow CLARITY: CLEAR OPAQUE ✓

SAMPLE pH: 5 VOLATILITY IN PPM: HNU OVA

SOLUBILITY TESTING

SOLUBLE IN WATER: pH OF SOLUTION: _____

HEAT EVOLVED: YES NO

GAS EVOLVED: YES NO

INSLUBLE IN WATER: LIGHTER THAN WATER: ✓

HEAVIER THAN WATER: _____

SOLUBILITY IN METHYLENE CHLORIDE: SOL ✓ INSOL

SOLUBILITY IN 5% HCL: SOLUBLE INSOLUBLE ✓

GAS EVOLVED: YES NO

pH OF EVOLVED GAS _____

SULFIDE TEST OF EVOLVED GAS: POS NEG ✓

OXIDIZER TEST: POS NEG ✓

SOLUBILITY IN 5% NaOH: SOLUBLE _____ INSOLUBLE

GAS EVOLVED: YES NO

pH OF EVOLVED GAS _____

CYANIDE TEST: POS NEG

NH4 OR AMINE TEST: POS NEG

SOLUBILITY IN NaHCO3: SOLUBLE _____ INSOLUBLE

GAS EVOLVED: YES NO

INGNITABILITY TESTING

MELTS: YES NO DETONATES: YES NO

IGNITES: YES NO SUPPORTS FLAME: YES NO

ASH: YES NO CARBON RESIDUE: YES NO

COLOR OF FLAME: _____ pH OF COMBUSTION GASES: _____

EVAPORATES BEFORE IGNITING: YES NO

HALOGEN FLAME TEST

GREEN FLAME: POSITIVE _____ NEGATIVE

PEROXIDE TESTING

ORGANIC PEROXIDES: POSITIVE _____ NEGATIVE

PCB TESTING

CHLOR-N-OIL PCB SCREEN: POSITIVE _____ NEGATIVE

PERCHLORIC NITRIC ACID TEST

NITRATES or CHLORATES: POSITIVE _____ NEGATIVE

NOTES: ciudac Hydrocarbon

ACURA ANALYTICAL LABORATORY, INC.

DATA SHEET FOR COMPATIBILITY TEST

LABORATORY ID # 1243

SAMPLE STATION# 9

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PHYSICAL OBSERVATION:

PHYSICAL STATE: SOLID _____ LIQUID _____ SLUDGE

VISCOSITY: FLUID _____ OILY _____ VISCOSUS

COLOR: Black CLARITY: CLEAR _____ OPAQUE

SAMPLE pH: — VOLATILITY IN PPM: HNU _____ OVA _____

SOLUBILITY TESTING

SOLUBLE IN WATER: pH OF SOLUTION: _____

HEAT EVOLVED: YES NO

GAS EVOLVED: YES NO

INSOLUBLE IN WATER: LIGHTER THAN WATER:
HEAVIER THAN WATER: _____

SOLUBILITY IN METHYLENE CHLORIDE: SOL INSOL _____

SOLUBILITY IN 5% HCL: SOLUBLE INSOLUBLE

GAS EVOLVED: YES NO

pH OF EVOLVED GAS _____

SULFIDE TEST OF EVOLVED GAS: POS NEG

OXIDIZER TEST: POS NEG

SOLUBILITY IN 5% NaOH: SOLUBLE _____ INSOLUBLE

GAS EVOLVED: YES NO

pH OF EVOLVED GAS _____

CYANIDE TEST: POS NEG

NH4 OR AMINE TEST: POS NEG

SOLUBILITY IN NaHCO3: SOLUBLE _____ INSOLUBLE

GAS EVOLVED: YES NO

INGNITABILITY TESTING

MELTS: YES NO

DETONATES: YES NO

IGNITES: YES NO

SUPPORTS FLAME: YES NO

ASH: YES NO

CARBON RESIDUE: YES NO

COLOR OF FLAME: _____ pH OF COMBUSTION GASES: _____

EVAPORATES BEFORE IGNITING: YES NO

HALOGEN FLAME TEST

GREEN FLAME: POSITIVE _____ NEGATIVE

PEROXIDE TESTING

ORGANIC PEROXIDES: POSITIVE _____ NEGATIVE

PCB TESTING

CHLOR-N-OIL PCB SCREEN: POSITIVE _____ NEGATIVE

PERCHLORIC NITRIC ACID TEST

NITRATES or CHLORATES: POSITIVE _____ NEGATIVE

NOTES: sludge Hydrocarbons

***** DATA SHEET FOR COMPATIBILITY TEST *****

ACCUURA ANALYTICAL LABORATORY, INC.

DATA SHEET FOR COMPATIBILITY TEST

LABORATORY ID # 1244

SAMPLE STATION# 10

PHYSICAL OBSERVATION:

PHYSICAL STATE: SOLID LIQUID SLUDGE

VISCOSITY: FLUID OILY VISCOSUS

COLOR: Dark yellow CLEAR Cloudy OPAQUE

SAMPLE PH: 5 VOLATILITY IN PPM: HNU OVA

SOLUBILITY TESTING

SOLUBLE IN WATER: pH OF SOLUTION: 3

HEAT EVOLVED: YES NO

GAS EVOLVED: YES NO

INSOLUBLE IN WATER: LIGHTER THAN WATER: -----

SOLUBILITY IN METHYLENE CHLORIDE: SOL INSOL -----

SOLUBILITY IN 5% HCl: SOLUBLE ----- INSOLUBLE -----

GAS EVOLVED: YES NO

HEAVIER THAN WATER: -----

INSOLUBLE IN WATER: LIGHTER THAN WATER: -----

SOLUBILITY IN METHYLENE CHLORIDE: SOL INSOL -----

GAS EVOLVED: YES NO

HEAT EVOLVED: YES NO

SOLUBLE IN WATER: pH OF SOLUTION: -----

OXIDIZER TEST: POS NEG -----

SULFIDE TEST OF EVOLVED GAS: POS NEG -----

pH OF EVOLVED GAS -----

GAS EVOLVED: YES NO

OXIDIZER TEST: POS NEG -----

SOLUBILITY IN 5% NaOH: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES ____ NO

pH OF EVOLVED GAS _____

CYANIDE TEST: POS ____ NEG

NH4 OR AMINE TEST: POS ____ NEG

SOLUBILITY IN NaHCO3: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES ____ NO

IGNITABILITY TESTING

MELTS: YES ____ NO DETONATES: YES ____ NO

IGNITES: YES ____ NO SUPPORTS FLAME: YES ____ NO

ASH: YES ____ NO CARBON RESIDUE: YES ____ NO

COLOR OF FLAME: _____ pH OF COMBUSTION GASES: _____

EVAPORATES BEFORE IGNITING: YES ____ NO ____

HALOGEN FLAME TEST

GREEN FLAME: POSITIVE ____ NEGATIVE

PEROXIDE TESTING

ORGANIC PEROXIDES: POSITIVE ____ NEGATIVE

PCB TESTING

CHLOR-N-OIL PCB SCREEN: POSITIVE ____ NEGATIVE

PERCHLORIC NITRIC ACID TEST

NITRATES or CHLORATES: POSITIVE ____ NEGATIVE

NOTES: Hydro Inorganic liquid

ACCUA ANALYTICAL LABORATORY, INC.

DATA SHEET FOR COMPATIBILITY TEST

LABORATORY ID # 1245

SAMPLE STATION# 11

PHYSICAL OBSERVATION:

PHYSICAL STATE: SOLID _____ LIQUID SLUDGE _____

VISCOSITY: FLUID OILY _____ VISCOSUS _____

COLOR: clear CLARITY: CLEAR OPAQUE _____

SAMPLE pH: 11 VOLATILITY IN PPM: HNU _____ OVA _____

SOLUBILITY TESTING

SOLUBLE IN WATER: pH OF SOLUTION: 12

HEAT EVOLVED: YES NO

GAS EVOLVED: YES NO

INSLUBLE IN WATER: LIGHTER THAN WATER: _____

HEAVIER THAN WATER: _____

SOLUBILITY IN METHYLENE CHLORIDE: SOL INSOL

SOLUBILITY IN 5% HCL: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES NO

pH OF EVOLVED GAS:

SULFIDE TEST OF EVOLVED GAS: POS NEG

OXIDIZER TEST: POS NEG

SOLUBILITY IN 5% NaOH: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES ____ NO

pH OF EVOLVED GAS _____

CYANIDE TEST: POS ____ NEG

NH₄ OR AMINE TEST: POS ____ NEG

SOLUBILITY IN NaHCO₃: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES ____ NO

IGNITABILITY TESTING

MELTS: YES ____ NO DETONATES: YES ____ NO

IGNITES: YES ____ NO SUPPORTS FLAME: YES ____ NO

ASH: YES ____ NO CARBON RESIDUE: YES ____ NO

COLOR OF FLAME: _____ pH OF COMBUSTION GASES: _____

EVAPORATES BEFORE IGNITING: YES ____ NO

HALOGEN FLAME TEST

GREEN FLAME: POSITIVE _____ NEGATIVE

PEROXIDE TESTING

ORGANIC PEROXIDES: POSITIVE _____ NEGATIVE

PCB TESTING

CHLOR-N-OIL PCB SCREEN: POSITIVE _____ NEGATIVE

PERCHLORIC NITRIC ACID TEST

NITRATES or CHLORATES: POSITIVE _____ NEGATIVE

NOTES: (Forms small or spherical up in flame)
Base Inorganic liquid

ACCUA ANALYTICAL LABORATORY, INC.

DATA SHEET FOR COMPATIBILITY TEST

LABORATORY ID # 1246

SAMPLE STATION# 12

PHYSICAL OBSERVATION:

PHYSICAL STATE: SOLID _____ LIQUID _____ SLUDGE

VISCOSITY: FLUID _____ OILY VISCOSUS _____

COLOR: Blue CLARITY: CLEAR _____ OPAQUE

SAMPLE pH: - VOLATILITY IN PPM: HNU _____ OVA _____

SOLUBILITY TESTING

SOLUBLE IN WATER: pH OF SOLUTION: _____

HEAT EVOLVED: YES NO

GAS EVOLVED: YES NO

INSLUBLE IN WATER: LIGHTER THAN WATER:

HEAVIER THAN WATER:

SOLUBILITY IN METHYLENE CHLORIDE: SOL INSOL

SOLUBILITY IN 5% HCL: SOLUBLE INSOLUBLE

GAS EVOLVED: YES NO

pH OF EVOLVED GAS

SULFIDE TEST OF EVOLVED GAS: POS NEG

OXIDIZER TEST: POS NEG

SOLUBILITY IN 5% NaOH: SOLUBLE _____ INSOLUBLE

GAS EVOLVED: YES NO _____

pH OF EVOLVED GAS _____

CYANIDE TEST: POS NEG

NH4 OR AMINE TEST: POS NEG

SOLUBILITY IN NaHCO3: SOLUBLE _____ INSOLUBLE

GAS EVOLVED: YES NO

INGNITABILITY TESTING

MELTS: YES NO DETONATES: YES NO

IGNITES: YES NO SUPPORTS FLAME: YES NO

ASH: YES NO CARBON RESIDUE: YES NO

COLOR OF FLAME: _____ pH OF COMBUSTION GASES: _____

EVAPORATES BEFORE IGNITING: YES NO

HALOGEN FLAME TEST

GREEN FLAME: POSITIVE _____ NEGATIVE

PEROXIDE TESTING

ORGANIC PEROXIDES: POSITIVE _____ NEGATIVE

PCB TESTING

CHLOR-N-OIL PCB SCREEN: POSITIVE _____ NEGATIVE

PERCHLORIC NITRIC ACID TEST

NITRATES or CHLORATES: POSITIVE _____ NEGATIVE

NOTES: sludge Hydrocarbon

ACCURA ANALYTICAL LABORATORY, INC.

DATA SHEET FOR COMPATIBILITY TEST

LABORATORY ID # 1247

SAMPLE STATION# 13

PHYSICAL OBSERVATION:

PHYSICAL STATE: SOLID LIQUID SLUDGE

VISCOSITY: FLUID OILY VISCOSU

COLOR: clear CLARITY: CLEAR OPAQUE

SAMPLE pH: 6 VOLATILITY IN PPM: HNU OVA

SOLUBILITY TESTING

SOLUBLE IN WATER: pH OF SOLUTION: 7 Forms milky fluid

HEAT EVOLVED: YES NO

GAS EVOLVED: YES NO

INSLUBLE IN WATER: LIGHTER THAN WATER:

HEAVIER THAN WATER:

SOLUBILITY IN METHYLENE CHLORIDE: SOL INSOL

SOLUBILITY IN 5% HCL: SOLUBLE ^{partly sol} INSOLUBLE

GAS EVOLVED: YES NO

pH OF EVOLVED GAS

SULFIDE TEST OF EVOLVED GAS: POS NEG

OXIDIZER TEST: POS NEG

SOLUBILITY IN 5% NaOH: SOLUBLE INSOLUBLE ✓

GAS EVOLVED: YES NO ✓

pH OF EVOLVED GAS —

CYANIDE TEST: POS NEG ✓

NH₄ OR AMINE TEST: POS NEG ✓

SOLUBILITY IN NaHCO₃: SOLUBLE INSOLUBLE ✓

GAS EVOLVED: YES NO ✓

IGNITABILITY TESTING

MELTS: YES NO ✓ DETONATES: YES NO ✓

IGNITES: YES ✓ NO SUPPORTS FLAME: YES ✓ NO

ASH: YES NO ✓ CARBON RESIDUE: YES NO ✓

COLOR OF FLAME: yellow pH OF COMBUSTION GASES: 7

EVAPORATES BEFORE IGNITING: YES NO

HALOGEN FLAME TEST

GREEN FLAME: POSITIVE NEGATIVE ✓

PEROXIDE TESTING

ORGANIC PEROXIDES: POSITIVE NEGATIVE ✓

PCB TESTING

CHLOR-N-OIL PCB SCREEN: POSITIVE NEGATIVE ✓

PERCHLORIC NITRIC ACID TEST

NITRATES or CHLORATES: POSITIVE NEGATIVE ✓

NOTES: neutral organic liquid

ACCURA ANALYTICAL LABORATORY, INC.

DATA SHEET FOR COMPATIBILITY TEST

LABORATORY ID # 1248

SAMPLE STATION# 14

=====

PHYSICAL OBSERVATION:

PHYSICAL STATE: SOLID _____ LIQUID SLUDGE _____

VISCOSITY: FLUID _____ OILY VISCOSUS _____

COLOR: Blue, yellow. CLARITY: CLEAR _____ OPAQUE

SAMPLE pH: 7 VOLATILITY IN PPM: HNU _____ OVA _____

SOLUBILITY TESTING

SOLUBLE IN WATER: pH OF SOLUTION: 7

HEAT EVOLVED: YES NO

GAS EVOLVED: YES NO

INSLUBLE IN WATER: LIGHTER THAN WATER: _____

HEAVIER THAN WATER: _____

SOLUBILITY IN METHYLENE CHLORIDE: SOL INSOL

SOLUBILITY IN 5% HCL: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES NO

pH OF EVOLVED GAS: _____

SULFIDE TEST OF EVOLVED GAS: POS NEG

OXIDIZER TEST: POS NEG

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04

SOLUBILITY IN 5% NaOH: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES NO

pH OF EVOLVED GAS _____

CYANIDE TEST: POS NEG

NH4 OR AMINE TEST: POS NEG

SOLUBILITY IN NaHCO3: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES NO

IGNITABILITY TESTING

MELTS: YES NO DETONATES: YES NO

IGNITES: YES NO SUPPORTS FLAME: YES NO

ASH: YES NO CARBON RESIDUE: YES NO

COLOR OF FLAME: _____ pH OF COMBUSTION GASES: _____

EVAPORATES BEFORE IGNITING: YES NO

HALOGEN FLAME TEST

GREEN FLAME: POSITIVE _____ NEGATIVE

PEROXIDE TESTING

ORGANIC PEROXIDES: POSITIVE _____ NEGATIVE

PCB TESTING

CHLOR-N-OIL PCB SCREEN: POSITIVE _____ NEGATIVE

PERCHLORIC NITRIC ACID TEST

NITRATES or CHLORATES: POSITIVE _____ NEGATIVE

NOTES: Neutral Inorganic liquid

ACCURA ANALYTICAL LABORATORY, INC.

DATA SHEET FOR COMPATIBILITY TEST

LABORATORY ID # 1249

SAMPLE STATION# 15

PHYSICAL OBSERVATION:

PHYSICAL STATE: SOLID _____ LIQUID SLUDGE _____

VISCOSITY: FLUID OILY _____ VISCOSUS _____

COLOR: white CLARITY: CLEAR _____ OPAQUE

SAMPLE pH: 7 VOLATILITY IN PPM: HNU _____ OVA _____

SOLUBILITY TESTING

SOLUBLE IN WATER: pH OF SOLUTION: 7

HEAT EVOLVED: YES _____ NO

GAS EVOLVED: YES _____ NO

INSOLUBLE IN WATER: LIGHTER THAN WATER: _____

HEAVIER THAN WATER: _____

SOLUBILITY IN METHYLENE CHLORIDE: SOL _____ INSOL

SOLUBILITY IN 5% HCL: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES _____ NO

pH OF EVOLVED GAS: _____

SULFIDE TEST OF EVOLVED GAS: POS _____ NEG

OXIDIZER TEST: POS _____ NEG

SOLUBILITY IN 5% NaOH: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES NO

pH OF EVOLVED GAS _____ -

CYANIDE TEST: POS NEG

NH4 OR AMINE TEST: POS NEG

SOLUBILITY IN NaHCO3: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES NO

INGNITABILITY TESTING

MELTS: YES NO DETONATES: YES NO

IGNITES: YES NO SUPPORTS FLAME: YES NO

ASH: YES NO CARBON RESIDUE: YES NO

COLOR OF FLAME: yellow pH OF COMBUSTION GASES: _____

EVAPORATES BEFORE IGNITING: YES NO

HALOGEN FLAME TEST

GREEN FLAME: POSITIVE _____ NEGATIVE

PEROXIDE TESTING

ORGANIC PEROXIDES: POSITIVE _____ NEGATIVE

PCB TESTING

CHLOR-N-OIL PCB SCREEN: POSITIVE _____ NEGATIVE

PERCHLORIC NITRIC ACID TEST

NITRATES or CHLORATES: POSITIVE _____ NEGATIVE

NOTES: Neutral Inorganic liquid

ACCURA ANALYTICAL LABORATORY, INC.

DATA SHEET FOR COMPATIBILITY TEST

LABORATORY ID # 1250

SAMPLE STATION# 16

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PHYSICAL OBSERVATION:

PHYSICAL STATE: SOLID _____ LIQUID SLUDGE _____

VISCOSITY: FLUID _____ OILY VISCous _____

COLOR: yellow CLARITY: CLEAR _____ OPAQUE

SAMPLE pH: 7 VOLATILITY IN PPM: HNU _____ OVA _____

SOLUBILITY TESTING

SOLUBLE IN WATER: pH OF SOLUTION: _____

HEAT EVOLVED: YES NO

GAS EVOLVED: YES NO

INSLUBLE IN WATER: LIGHTER THAN WATER:

HEAVIER THAN WATER: _____

SOLUBILITY IN METHYLENE CHLORIDE: SOL INSOL

SOLUBILITY IN 5% HCL: SOLUBLE INSOLUBLE

GAS EVOLVED: YES NO

pH OF EVOLVED GAS

SULFIDE TEST OF EVOLVED GAS: POS NEG

OXIDIZER TEST: POS NEG

SOLUBILITY IN 5% NaOH: SOLUBLE INSOLUBLE _____
partly sol.

GAS EVOLVED: YES NO

pH OF EVOLVED GAS _____ -

CYANIDE TEST: POS NEG

NH4 OR AMINE TEST: POS NEG

SOLUBILITY IN NaHCO3: SOLUBLE _____ INSOLUBLE

GAS EVOLVED: YES NO

INGNITABILITY TESTING

MELTS: YES NO DETONATES: YES NO

IGNITES: YES NO SUPPORTS FLAME: YES NO

ASH: YES NO CARBON RESIDUE: YES NO

COLOR OF FLAME: yellow. pH OF COMBUSTION GASES: 7

EVAPORATES BEFORE IGNITING: YES NO

HALOGEN FLAME TEST

GREEN FLAME: POSITIVE _____ NEGATIVE

PEROXIDE TESTING

ORGANIC PEROXIDES: POSITIVE _____ NEGATIVE

PCB TESTING

CHLOR-N-OIL PCB SCREEN: POSITIVE _____ NEGATIVE

PERCHLORIC NITRIC ACID TEST

NITRATES or CHLORATES: POSITIVE _____ NEGATIVE

NOTES: Liquid Hydrocarbons

ACCUA ANALYTICAL LABORATORY, INC.

DATA SHEET FOR COMPATIBILITY TEST

LABORATORY ID # 1251

SAMPLE STATION# 17

PHYSICAL OBSERVATION:

PHYSICAL STATE: SOLID _____ LIQUID _____ SLUDGE Paint

VISCOSITY: FLUID _____ OILY _____ VISCOSUS

COLOR: Red CLARITY: CLEAR _____ OPAQUE

SAMPLE pH: 7 VOLATILITY IN PPM: HNU _____ OVA _____

SOLUBILITY TESTING

SOLUBLE IN WATER: pH OF SOLUTION: _____

HEAT EVOLVED: YES NO

GAS EVOLVED: YES NO

INSLUBLE IN WATER: LIGHTER THAN WATER: ✓
^A

HEAVIER THAN WATER: _____

SOLUBILITY IN METHYLENE CHLORIDE: SOL INSOL

SOLUBILITY IN 5% HCL: SOLUBLE INSOLUBLE

GAS EVOLVED: YES NO

pH OF EVOLVED GAS _____

SULFIDE TEST OF EVOLVED GAS: POS NEG

OXIDIZER TEST: POS NEG

SOLUBILITY IN 5% NaOH: SOLUBLE _____ INSOLUBLE

GAS EVOLVED: YES NO

pH OF EVOLVED GAS _____ -

CYANIDE TEST: POS NEG

NH4 OR AMINE TEST: POS NEG

SOLUBILITY IN NaHCO3: SOLUBLE _____ INSOLUBLE

GAS EVOLVED: YES NO

INGNITABILITY TESTING

MELTS: YES NO DETONATES: YES NO

IGNITES: YES NO SUPPORTS FLAME: YES NO

ASH: YES NO CARBON RESIDUE: YES NO

COLOR OF FLAME: yellow pH OF COMBUSTION GASES: 7

EVAPORATES BEFORE IGNITING: YES NO

HALOGEN FLAME TEST

GREEN FLAME: POSITIVE _____ NEGATIVE

PEROXIDE TESTING

ORGANIC PEROXIDES: POSITIVE _____ NEGATIVE

PCB TESTING

CHLOR-N-OIL PCB SCREEN: POSITIVE _____ NEGATIVE

PERCHLORIC NITRIC ACID TEST

NITRATES or CHLORATES: POSITIVE _____ NEGATIVE

NOTES: sludge Hydrocarbons

ACCUA ANALYTICAL LABORATORY, INC.

DATA SHEET FOR COMPATIBILITY TEST

LABORATORY ID # 1252

SAMPLE STATION# 18

PHYSICAL OBSERVATION:

PHYSICAL STATE: SOLID _____ LIQUID SLUDGE _____

VISCOSITY: FLUID _____ OILY VISCOSUS _____

COLOR: black CLARITY: CLEAR _____ OPAQUE

SAMPLE pH: 7 VOLATILITY IN PPM: HNU _____ OVA _____

SOLUBILITY TESTING

SOLUBLE IN WATER: pH OF SOLUTION: _____

HEAT EVOLVED: YES ____ NO ____

GAS EVOLVED: YES ____ NO ____

^oINSLUBLE IN WATER: LIGHTER THAN WATER:
^AHEAVIER THAN WATER: _____

HEAVIER THAN WATER: _____

SOLUBILITY IN METHYLENE CHLORIDE: SOL INSOL _____

SOLUBILITY IN 5% HCL: SOLUBLE _____ INSOLUBLE

GAS EVOLVED: YES ____ NO

pH OF EVOLVED GAS _____

SULFIDE TEST OF EVOLVED GAS: POS ____ NEG

OXIDIZER TEST: POS ____ NEG

SOLUBILITY IN 5% NaOH: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES NO

pH OF EVOLVED GAS _____

CYANIDE TEST: POS NEG

NH₄ OR AMINE TEST: POS NEG

SOLUBILITY IN NaHCO₃: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES NO

IGNITABILITY TESTING

MELTS: YES NO DETONATES: YES NO

IGNITES: YES NO SUPPORTS FLAME: YES NO

ASH: YES NO CARBON RESIDUE: YES NO

COLOR OF FLAME: yellow pH OF COMBUSTION GASES: 7

EVAPORATES BEFORE IGNITING: YES NO

HALOGEN FLAME TEST

GREEN FLAME: POSITIVE NEGATIVE

PEROXIDE TESTING

ORGANIC PEROXIDES: POSITIVE NEGATIVE

PCB TESTING

CHLOR-N-OIL PCB SCREEN: POSITIVE NEGATIVE

PERCHLORIC NITRIC ACID TEST

NITRATES or CHLORATES: POSITIVE NEGATIVE

NOTES: liquid Hydrocarbons

 DATA SHEET FOR COMPATIBILITY TEST
 ACCURA ANALYTICAL LABORATORY, INC.

LABORATORY ID # 123 SAMPLE STATION# 19

PHYSICAL OBSERVATION:

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PHYSICAL STATE: SOLID LIQUID SLUDGE VISCOSITY: FLUID OILY VISCOUS COLOR: CLEAR OPACUE VOLATILITY IN PPM: HNU OVA SAMPLE PH: 3

SOLUBILITY TESTING

SOLUBLE IN WATER: pH OF SOLUTION: 3

HEAT EVOLVED: YES NO GAS EVOLVED: YES NO

INSOLUBLE IN WATER: LIGHTER THAN WATER: HEAVIER THAN WATER: SOLUBLE IN METHYLENE CHLORIDE: SOL INSOL

SOLUBLE IN 5% HCl: SOLUBLE INSOLUBLE GAS EVOLVED: YES NO

SULFIDE TEST OF EVOLVED GAS: POS NEG

OXIDIZER TEST: POS NEG

SOLUBILITY IN 5% NaOH: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES ____ NO

pH OF EVOLVED GAS _____

CYANIDE TEST: POS ____ NEG

NH4 OR AMINE TEST: POS ____ NEG

SOLUBILITY IN NaHCO3: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES ____ NO

INGNITABILITY TESTING

MELTS: YES ____ NO ____ DETONATES: YES ____ NO

IGNITES: YES NO ____ SUPPORTS FLAME: YES NO ____

ASH: YES ____ NO CARBON RESIDUE: YES ____ NO

COLOR OF FLAME: light blue pH OF COMBUSTION GASES: 7

EVAPORATES BEFORE IGNITING: YES ____ NO

HALOGEN FLAME TEST

GREEN FLAME: POSITIVE ____ NEGATIVE

PEROXIDE TESTING

ORGANIC PEROXIDES: POSITIVE ____ NEGATIVE

PCB TESTING

CHLOR-N-OIL PCB SCREEN: POSITIVE ____ NEGATIVE

PERCHLORIC NITRIC ACID TEST

NITRATES or CHLORATES: POSITIVE ____ NEGATIVE

NOTES: Fluid organic liquids

ACURA ANALYTICAL LABORATORY, INC.

DATA SHEET FOR COMPATIBILITY TEST

LABORATORY ID # 1254

SAMPLE STATION# 20

=====

PHYSICAL OBSERVATION:

PHYSICAL STATE: SOLID _____ LIQUID _____ SLUDGE *part*

VISCOSITY: FLUID _____ OILY _____ VISCOSUS

COLOR: blue CLARITY: CLEAR _____ OPAQUE

SAMPLE pH: 7 VOLATILITY IN PPM: HNU _____ OVA _____

SOLUBILITY TESTING

SOLUBLE IN WATER: pH OF SOLUTION: _____

HEAT EVOLVED: YES ____ NO ____

GAS EVOLVED: YES ____ NO ____

INSLUBLE IN WATER: LIGHTER THAN WATER:
^ HEAVIER THAN WATER: _____

HEAVIER THAN WATER: _____

SOLUBILITY IN METHYLENE CHLORIDE: SOL INSOL _____

SOLUBILITY IN 5% HCL: SOLUBLE _____ INSOLUBLE

GAS EVOLVED: YES ____ NO

pH OF EVOLVED GAS _____

SULFIDE TEST OF EVOLVED GAS: POS ____ NEG

OXIDIZER TEST: POS ____ NEG

SOLUBILITY IN 5% NaOH: SOLUBLE _____ INSOLUBLE

GAS EVOLVED: YES NO

pH OF EVOLVED GAS _____

CYANIDE TEST: POS NEG

NH₄ OR AMINE TEST: POS NEG

SOLUBILITY IN NaHCO₃: SOLUBLE _____ INSOLUBLE

GAS EVOLVED: YES NO

IGNITABILITY TESTING

MELTS: YES NO DETONATES: YES NO

IGNITES: YES NO SUPPORTS FLAME: YES NO

ASH: YES NO CARBON RESIDUE: YES NO

COLOR OF FLAME: yellow pH OF COMBUSTION GASES: 7

EVAPORATES BEFORE IGNITING: YES NO

HALOGEN FLAME TEST

GREEN FLAME: POSITIVE _____ NEGATIVE

PEROXIDE TESTING

ORGANIC PEROXIDES: POSITIVE _____ NEGATIVE

PCB TESTING

CHLOR-N-OIL PCB SCREEN: POSITIVE _____ NEGATIVE

PERCHLORIC NITRIC ACID TEST

NITRATES or CHLORATES: POSITIVE _____ NEGATIVE

NOTES: sludge Hydrocarbons

ACCURA ANALYTICAL LABORATORY, INC.

DATA SHEET FOR COMPATIBILITY TEST

LABORATORY ID # 1252

SAMPLE STATION# 21

PHYSICAL OBSERVATION:

PHYSICAL STATE: SOLID _____ LIQUID SLUDGE _____

VISCOSITY: FLUID OILY _____ VISCOSUS _____

COLOR: Light beige CLARITY: CLEAR _____ OPAQUE

SAMPLE pH: 7 VOLATILITY IN PPM: HNU _____ OVA _____

SOLUBILITY TESTING

SOLUBLE IN WATER: pH OF SOLUTION: 7

HEAT EVOLVED: YES NO

GAS EVOLVED: YES NO

INSOLUBLE IN WATER: LIGHTER THAN WATER: _____

HEAVIER THAN WATER: _____

SOLUBILITY IN METHYLENE CHLORIDE: SOL INSOL

SOLUBILITY IN 5% HCL: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES NO

pH OF EVOLVED GAS

SULFIDE TEST OF EVOLVED GAS: POS NEG

OXIDIZER TEST: POS NEG

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(21)

SOLUBILITY IN 5% NaOH: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES _____ NO

pH OF EVOLVED GAS _____ -

CYANIDE TEST: POS _____ NEG

NH₄ OR AMINE TEST: POS _____ NEG

SOLUBILITY IN NaHC0₃: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES _____ NO

INGNITABILITY TESTING

MELTS: YES _____ NO DETONATES: YES _____ NO

IGNITES: YES NO SUPPORTS FLAME: YES _____ NO

ASH: YES _____ NO CARBON RESIDUE: YES _____ NO

COLOR OF FLAME: _____ pH OF COMBUSTION GASES: _____

EVAPORATES BEFORE IGNITING: YES _____ NO

HALOGEN FLAME TEST

GREEN FLAME: POSITIVE _____ NEGATIVE

PEROXIDE TESTING

ORGANIC PEROXIDES: POSITIVE _____ NEGATIVE

PCB TESTING

CHLOR-N-OIL PCB SCREEN: POSITIVE _____ NEGATIVE

PERCHLORIC NITRIC ACID TEST

NITRATES or CHLORATES: POSITIVE _____ NEGATIVE

NOTES: Has pigment (metal inorganic ligands)

SOLUBILITY IN 5% NaOH: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES NO

pH OF EVOLVED GAS _____

CYANIDE TEST: POS NEG

NH₄ OR AMINE TEST: POS NEG

SOLUBILITY IN NaHCO₃: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES NO

INGNITABILITY TESTING

MELTS: YES NO DETONATES: YES NO

IGNITES: YES NO SUPPORTS FLAME: YES NO

ASH: YES NO CARBON RESIDUE: YES NO

COLOR OF FLAME: yellow pH OF COMBUSTION GASES: 7

EVAPORATES BEFORE IGNITING: YES NO

HALOGEN FLAME TEST

GREEN FLAME: POSITIVE _____ NEGATIVE

PEROXIDE TESTING

ORGANIC PEROXIDES: POSITIVE _____ NEGATIVE

PCB TESTING

CHLOR-N-OIL PCB SCREEN: POSITIVE _____ NEGATIVE

PERCHLORIC NITRIC ACID TEST

NITRATES or CHLORATES: POSITIVE _____ NEGATIVE

NOTES: neutral organic liquids

DATA SHEET FOR COMPATIBILITY TEST

ACCUURA ANALYTICAL LABORATORY, INC.

LABORATORY ID # 1936

SAMPLE STATION# 22

PHYSICAL OBSERVATION:

PHYSICAL STATE: SOLID LIQUID SLUDGE

VISCOSITY: FLUID OILY VISCOUS

COLOR: 224 CLEAR OPAQUE

SAMPLE PH: 7 VOLATILITY IN PPM: HNU OVA

SOLUBILITY TESTING

SOLUBLE IN WATER: pH OF SOLUTION: 7 /

GAS EVOLVED: YES / NO /

HEAT EVOLVED: YES / NO /

INSOLUBLE IN WATER: LIGHTER THAN WATER: /

SOLUBILITY IN METHYLENE CHLORIDE: SOL / INSOL /

HEAVIER THAN WATER: /

SOLUBILITY IN 5% HCl: SOLUBLE / INSOLUBLE /

GAS EVOLVED: YES / NO /

pH OF EVOLVED GAS /

SULFIDE TEST OF EVOLVED GAS: POS / NEG /

OXIDIZER TEST: POS / NEG /

***** DATA SHEET FOR COMPATIBILITY TEST *****

ACCURA ANALYTICAL LABORATORY, INC.

LABORATORY ID # 123-7 SAMPLE STATION# 23

PHYSICAL OBSERVATION:

PHYSICAL STATE: SOLID L LIQUID / SLUDGE /

VISCOSITY: FLUID / OILY / VISCOSUS /

COLOR: black CLARITY: CLEAR / OPAQUE /

SAMPLE PH: 7 VOLATILITY IN PPM: HNU / OVA /

SOLUBILITY TESTING

SOLUBLE IN WATER: pH OF SOLUTION: / /

HEAT EVOLVED: YES / NO /

INSOLUBLE IN WATER: LIGHTER THAN WATER: /

SOLUBILITY IN METHYLENE CHLORIDE: SOL / INSOL /

SOLUBILITY IN 5% HCl: SOLUBLE / INSOLUBLE /

GAS EVOLVED: YES / NO /

pH OF EVOLVED GAS: POS / NEG /

SULFIDE TEST OF EVOLVED GAS: POS / NEG /

OXIDIZER TEST: POS / NEG /

SOLUBILITY IN 5% NaOH: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES NO

pH OF EVOLVED GAS _____

CYANIDE TEST: POS NEG

NH4 OR AMINE TEST: POS NEG

SOLUBILITY IN NaHCO3: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES NO

INGNITABILITY TESTING

MELTS: YES NO DETONATES: YES NO

IGNITES: YES NO SUPPORTS FLAME: YES NO

ASH: YES NO CARBON RESIDUE: YES NO

COLOR OF FLAME: yellow pH OF COMBUSTION GASES: 7

EVAPORATES BEFORE IGNITING: YES NO

HALOGEN FLAME TEST

GREEN FLAME: POSITIVE NEGATIVE

PEROXIDE TESTING

ORGANIC PEROXIDES: POSITIVE NEGATIVE

PCB TESTING

CHLOR-N-OIL PCB SCREEN: POSITIVE NEGATIVE

PERCHLORIC NITRIC ACID TEST

NITRATES or CHLORATES: POSITIVE NEGATIVE

NOTES: neutral to some liquids

ACCURA ANALYTICAL LABORATORY, INC.

DATA SHEET FOR COMPATIBILITY TEST

LABORATORY ID # 1258

SAMPLE STATION# 24

=====

PHYSICAL OBSERVATION:

PHYSICAL STATE: SOLID _____ LIQUID SLUDGE _____

VISCOSITY: FLUID OILY _____ VISCOSUS _____

COLOR: light red CLARITY: CLEAR OPAQUE _____

SAMPLE pH: 10 VOLATILITY IN PPM: HNU _____ OVA _____

SOLUBILITY TESTING

SOLUBLE IN WATER: pH OF SOLUTION: 9

HEAT EVOLVED: YES _____ NO

GAS EVOLVED: YES _____ NO

INSLUBLE IN WATER: LIGHTER THAN WATER: _____

HEAVIER THAN WATER: _____

SOLUBILITY IN METHYLENE CHLORIDE: SOL _____ INSOL

SOLUBILITY IN 5% HCL: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES _____ NO

pH OF EVOLVED GAS: _____

SULFIDE TEST OF EVOLVED GAS: POS _____ NEG

OXIDIZER TEST: POS _____ NEG

SOLUBILITY IN 5% NaOH: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES NO

pH OF EVOLVED GAS _____ -

CYANIDE TEST: POS NEG

NH₄ OR AMINE TEST: POS NEG

SOLUBILITY IN NaHCO₃: SOLUBLE _____ INSOLUBLE

GAS EVOLVED: YES NO

IGNITABILITY TESTING

MELTS: YES NO DETONATES: YES NO

IGNITES: YES NO SUPPORTS FLAME: YES NO

ASH: YES NO CARBON RESIDUE: YES NO

COLOR OF FLAME: _____ pH OF COMBUSTION GASES: _____

EVAPORATES BEFORE IGNITING: YES NO

HALOGEN FLAME TEST

GREEN FLAME: POSITIVE _____ NEGATIVE

PEROXIDE TESTING

ORGANIC PEROXIDES: POSITIVE _____ NEGATIVE

PCB TESTING

CHLOR-N-OIL PCB SCREEN: POSITIVE _____ NEGATIVE

PERCHLORIC NITRIC ACID TEST

NITRATES or CHLORATES: POSITIVE _____ NEGATIVE

NOTES: Base Inorganic liquids

ACCURA ANALYTICAL LABORATORY, INC.

DATA SHEET FOR COMPATIBILITY TEST

LABORATORY ID # 1259

SAMPLE STATION# 25

PHYSICAL OBSERVATION:

PHYSICAL STATE: SOLID LIQUID ✓ SLUDGE

VISCOSITY: FLUID ✓ OILY VISCOSUS

COLOR: light yellow CLARITY: CLEAR ✓ OPAQUE

SAMPLE pH: 4 VOLATILITY IN PPM: HNU OVA

SOLUBILITY TESTING

SOLUBLE IN WATER: pH OF SOLUTION: 5 ✓

HEAT EVOLVED: YES NO ✓

GAS EVOLVED: YES NO ✓

INSOLUBLE IN WATER: LIGHTER THAN WATER:

HEAVIER THAN WATER:

SOLUBILITY IN METHYLENE CHLORIDE: SOL partly INSOL

SOLUBILITY IN 5% HCL: SOLUBLE ✓ INSOLUBLE

GAS EVOLVED: YES NO ✓

pH OF EVOLVED GAS

SULFIDE TEST OF EVOLVED GAS: POS NEG

OXIDIZER TEST: POS NEG

SOLUBILITY IN 5% NaOH: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES ____ NO

pH OF EVOLVED GAS _____ -

CYANIDE TEST: POS ____ NEG

NH₄ OR AMINE TEST: POS ____ NEG

SOLUBILITY IN NaHCO₃: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES ____ NO

IGNITABILITY TESTING

MELTS: YES ____ NO DETONATES: YES ____ NO

IGNITES: YES NO ____ SUPPORTS FLAME: YES ____ NO

ASH: YES ____ NO CARBON RESIDUE: YES ____ NO

COLOR OF FLAME: _____ pH OF COMBUSTION GASES: _____

EVAPORATES BEFORE IGNITING: YES ____ NO

HALOGEN FLAME TEST

GREEN FLAME: POSITIVE _____ NEGATIVE

PEROXIDE TESTING

ORGANIC PEROXIDES: POSITIVE _____ NEGATIVE

PCB TESTING

CHLOR-N-OIL PCB SCREEN: POSITIVE _____ NEGATIVE

PERCHLORIC NITRIC ACID TEST

NITRATES or CHLORATES: POSITIVE _____ NEGATIVE

NOTES: Acidic Inorganic liquids

ACCUA ANALYTICAL LABORATORY, INC.

DATA SHEET FOR COMPATIBILITY TEST

LABORATORY ID # 1260

SAMPLE STATION# 26

PHYSICAL OBSERVATION:

PHYSICAL STATE: SOLID LIQUID SLUDGE

VISCOSITY: FLUID OILY VISCOSUS

COLOR: light yellow CLARITY: CLEAR OPAQUE

SAMPLE pH: 2 VOLATILITY IN PPM: HNU OVA

SOLUBILITY TESTING

SOLUBLE IN WATER: pH OF SOLUTION: 3

HEAT EVOLVED: YES NO

GAS EVOLVED: YES NO

INSOLUBLE IN WATER: LIGHTER THAN WATER:

HEAVIER THAN WATER:

SOLUBILITY IN METHYLENE CHLORIDE: SOL INSOL

SOLUBILITY IN 5% HCL: SOLUBLE INSOLUBLE

GAS EVOLVED: YES NO

pH OF EVOLVED GAS

SULFIDE TEST OF EVOLVED GAS: POS NEG

OXIDIZER TEST: POS NEG

SOLUBILITY IN 5% NaOH: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES NO

pH OF EVOLVED GAS _____

CYANIDE TEST: POS NEG

NH₄ OR AMINE TEST: POS NEG

SOLUBILITY IN NaHCO₃: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES NO

INGNITABILITY TESTING

MELTS: YES NO DETONATES: YES NO

IGNITES: YES NO SUPPORTS FLAME: YES NO

ASH: YES NO CARBON RESIDUE: YES NO

COLOR OF FLAME: _____ pH OF COMBUSTION GASES: _____

EVAPORATES BEFORE IGNITING: YES NO

HALOGEN FLAME TEST

GREEN FLAME: POSITIVE NEGATIVE

PEROXIDE TESTING

ORGANIC PEROXIDES: POSITIVE NEGATIVE

PCB TESTING

CHLOR-N-OIL PCB SCREEN: POSITIVE NEGATIVE

PERCHLORIC NITRIC ACID TEST

NITRATES or CHLORATES: POSITIVE NEGATIVE

NOTES: Acidic Inorganic Liquids

ACCURA ANALYTICAL LABORATORY, INC.

DATA SHEET FOR COMPATIBILITY TEST

LABORATORY ID # 1261

SAMPLE STATION# 27

PHYSICAL OBSERVATION:

PHYSICAL STATE: SOLID _____ LIQUID _____ SLUDGE

VISCOSITY: FLUID _____ OILY _____ VISCOSUS

COLOR: Color CLARITY: CLEAR _____ OPAQUE

SAMPLE pH: 7 VOLATILITY IN PPM: HNU _____ OVA _____

SOLUBILITY TESTING

SOLUBLE IN WATER: pH OF SOLUTION: _____

HEAT EVOLVED: YES NO

GAS EVOLVED: YES NO

INSOLUBLE IN WATER: LIGHTER THAN WATER:

HEAVIER THAN WATER:

SOLUBILITY IN METHYLENE CHLORIDE: SOL INSOL

SOLUBILITY IN 5% HCL: SOLUBLE INSOLUBLE

GAS EVOLVED: YES NO

pH OF EVOLVED GAS

SULFIDE TEST OF EVOLVED GAS: POS NEG

OXIDIZER TEST: POS NEG

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SOLUBILITY IN 5% NaOH: SOLUBLE _____ INSOLUBLE

GAS EVOLVED: YES NO _____

pH OF EVOLVED GAS _____

CYANIDE TEST: POS NEG

NH4 OR AMINE TEST: POS NEG

SOLUBILITY IN NaHCO3: SOLUBLE _____ INSOLUBLE _____

GAS EVOLVED: YES NO _____

IGNITABILITY TESTING

MELTS: YES NO DETONATES: YES NO

IGNITES: YES NO SUPPORTS FLAME: YES NO

ASH: YES NO CARBON RESIDUE: YES NO

COLOR OF FLAME: _____ pH OF COMBUSTION GASES: _____

EVAPORATES BEFORE IGNITING: YES NO

HALOGEN FLAME TEST

GREEN FLAME: POSITIVE _____ NEGATIVE _____

PEROXIDE TESTING

ORGANIC PEROXIDES: POSITIVE _____ NEGATIVE

PCB TESTING

CHLOR-N-OIL PCB SCREEN: POSITIVE _____ NEGATIVE

PERCHLORIC NITRIC ACID TEST

NITRATES or CHLORATES: POSITIVE _____ NEGATIVE

NOTES: sludge Hydrocarbons

ACCURA ANALYTICAL LABORATORY, INC.

DATA SHEET FOR COMPATIBILITY TEST

LABORATORY ID # 1262

SAMPLE STATION# 28

=====

PHYSICAL OBSERVATION:

PHYSICAL STATE: SOLID _____ LIQUID SLUDGE _____

VISCOSITY: FLUID OILY _____ VISCOSUS _____

COLOR: Dark CLARITY: CLEAR OPAQUE _____

SAMPLE pH: 3 VOLATILITY IN PPM: HNU _____ OVA _____

SOLUBILITY TESTING

SOLUBLE IN WATER: pH OF SOLUTION: 2

HEAT EVOLVED: YES NO

GAS EVOLVED: YES NO

INSLUBLE IN WATER: LIGHTER THAN WATER:

HEAVIER THAN WATER:

SOLUBILITY IN METHYLENE CHLORIDE: SOL INSOL

SOLUBILITY IN 5% HCL: SOLUBLE INSOLUBLE

GAS EVOLVED: YES NO

pH OF EVOLVED GAS

SULFIDE TEST OF EVOLVED GAS: POS NEG

OXIDIZER TEST: POS NEG

SOLUBILITY IN 5% NaOH: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES NO

pH OF EVOLVED GAS _____

CYANIDE TEST: POS NEG

NH4 OR AMINE TEST: POS NEG

SOLUBILITY IN NaHCO3: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES NO _____

IGNITABILITY TESTING

MELTS: YES NO DETONATES: YES NO _____

IGNITES: YES NO SUPPORTS FLAME: YES NO

ASH: YES NO CARBON RESIDUE: YES NO

COLOR OF FLAME: yellow pH OF COMBUSTION GASES: _____

EVAPORATES BEFORE IGNITING: YES NO

HALOGEN FLAME TEST

GREEN FLAME: POSITIVE NEGATIVE

PEROXIDE TESTING

ORGANIC PEROXIDES: POSITIVE NEGATIVE

PCB TESTING

CHLOR-N-OIL PCB SCREEN: POSITIVE NEGATIVE

PERCHLORIC NITRIC ACID TEST

NITRATES or CHLORATES: POSITIVE NEGATIVE

NOTES: Acidic Inorganic liquid

ACCURA ANALYTICAL LABORATORY, INC.

DATA SHEET FOR COMPATIBILITY TEST

LABORATORY ID # 1263

SAMPLE STATION# 29

PHYSICAL OBSERVATION:

PHYSICAL STATE: SOLID _____ LIQUID SLUDGE _____

VISCOSITY: FLUID OILY _____ VISCOSUS _____

COLOR: CLARITY: CLEAR OPAQUE _____

SAMPLE pH: VOLATILITY IN PPM: HNU _____ OVA _____

SOLUBILITY TESTING

SOLUBLE IN WATER: pH OF SOLUTION:

HEAT EVOLVED: YES NO

GAS EVOLVED: YES NO

INSOLUBLE IN WATER: LIGHTER THAN WATER:

HEAVIER THAN WATER:

SOLUBILITY IN METHYLENE CHLORIDE: SOL INSOL

SOLUBILITY IN 5% HCL: SOLUBLE INSOLUBLE

GAS EVOLVED: YES NO

pH OF EVOLVED GAS

SULFIDE TEST OF EVOLVED GAS: POS NEG

OXIDIZER TEST: POS NEG

SOLUBILITY IN 5% NaOH: SOLUBLE INSOLUBLE

GAS EVOLVED: YES NO

pH OF EVOLVED GAS _____

CYANIDE TEST: POS NEG

NH4 OR AMINE TEST: POS NEG

SOLUBILITY IN NaHCO3: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES NO

INGNITABILITY TESTING

MELTS: YES NO DETONATES: YES NO

IGNITES: YES NO SUPPORTS FLAME: YES NO

ASH: YES NO CARBON RESIDUE: YES NO

COLOR OF FLAME: _____ pH OF COMBUSTION GASES: _____

EVAPORATES BEFORE IGNITING: YES NO

HALOGEN FLAME TEST

GREEN FLAME: POSITIVE NEGATIVE

PEROXIDE TESTING

ORGANIC PEROXIDES: POSITIVE NEGATIVE

PCB TESTING

CHLOR-N-OIL PCB SCREEN: POSITIVE NEGATIVE

PERCHLORIC NITRIC ACID TEST

NITRATES or CHLORATES: POSITIVE NEGATIVE

NOTES: Acidic inorganic liquid.

ACCUA ANALYTICAL LABORATORY, INC.

DATA SHEET FOR COMPATIBILITY TEST

LABORATORY ID # 1264

SAMPLE STATION# 30

=====

PHYSICAL OBSERVATION:

PHYSICAL STATE: SOLID _____ LIQUID SLUDGE _____

VISCOSITY: FLUID OILY _____ VISCOSUS _____

COLOR: clear CLARITY: CLEAR OPAQUE _____

SAMPLE pH: 11 VOLATILITY IN PPM: HNU _____ OVA _____

SOLUBILITY TESTING

SOLUBLE IN WATER: pH OF SOLUTION: 11

HEAT EVOLVED: YES NO

GAS EVOLVED: YES NO

INSLUBLE IN WATER: LIGHTER THAN WATER: _____

HEAVIER THAN WATER: _____

SOLUBILITY IN METHYLENE CHLORIDE: SOL INSOL

SOLUBILITY IN 5% HCL: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES NO

pH OF EVOLVED GAS _____

SULFIDE TEST OF EVOLVED GAS: POS NEG

OXIDIZER TEST: POS NEG

SOLUBILITY IN 5% NaOH: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES ____ NO

pH OF EVOLVED GAS _____

CYANIDE TEST: POS ____ NEG

NH₄ OR AMINE TEST: POS ____ NEG _____

SOLUBILITY IN NaHCO₃: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES ____ NO

INGNITABILITY TESTING

MELTS: YES ____ NO DETONATES: YES ____ NO

IGNITES: YES ____ NO SUPPORTS FLAME: YES ____ NO

ASH: YES NO ____ CARBON RESIDUE: YES ____ NO

COLOR OF FLAME: _____ pH OF COMBUSTION GASES: _____

EVAPORATES BEFORE IGNITING: YES ____ NO

HALOGEN FLAME TEST

GREEN FLAME: POSITIVE _____ NEGATIVE

PEROXIDE TESTING

ORGANIC PEROXIDES: POSITIVE _____ NEGATIVE

PCB TESTING

CHLOR-N-OIL PCB SCREEN: POSITIVE _____ NEGATIVE

PERCHLORIC NITRIC ACID TEST

NITRATES or CHLORATES: POSITIVE _____ NEGATIVE

NOTES: (could have na) Base Inorganic liquids.

ACCURA ANALYTICAL LABORATORY, INC.

DATA SHEET FOR COMPATIBILITY TEST

LABORATORY ID # 1265

SAMPLE STATION# 31

=====

PHYSICAL OBSERVATION:

PHYSICAL STATE: SOLID _____ LIQUID SLUDGE _____

VISCOSITY: FLUID OILY _____ VISCOSU _____

COLOR: light Brown CLARITY: CLEAR OPAQUE _____

SAMPLE pH: 4 VOLATILITY IN PPM: HNU _____ OVA _____

SOLUBILITY TESTING

SOLUBLE IN WATER: pH OF SOLUTION: 5

HEAT EVOLVED: YES NO

GAS EVOLVED: YES NO

INSLUBLE IN WATER: LIGHTER THAN WATER:

HEAVIER THAN WATER:

SOLUBILITY IN METHYLENE CHLORIDE: SOL INSOL

SOLUBILITY IN 5% HCL: SOLUBLE INSOLUBLE

GAS EVOLVED: YES NO

pH OF EVOLVED GAS

SULFIDE TEST OF EVOLVED GAS: POS NEG

OXIDIZER TEST: POS NEG

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SOLUBILITY IN 5% NaOH: SOLUBLE _____ INSOLUBLE _____

GAS EVOLVED: YES _____ NO _____ ✓

pH OF EVOLVED GAS _____

CYANIDE TEST: POS _____ NEG _____ ✓

NH₄ OR AMINE TEST: POS _____ NEG _____ ✓

SOLUBILITY IN NaHCO₃: SOLUBLE ✓ INSOLUBLE _____

GAS EVOLVED: YES _____ NO _____ ✓

INGNITABILITY TESTING

MELTS: YES _____ NO ✓ DETONATES: YES _____ NO _____ ✓

IGNITES: YES ✓ NO _____ SUPPORTS FLAME: YES _____ NO _____ ✓

ASH: YES _____ NO ✓ CARBON RESIDUE: YES _____ NO _____ ✓

COLOR OF FLAME: _____ pH OF COMBUSTION GASES: _____

EVAPORATES BEFORE IGNITING: YES _____ NO ✓

HALOGEN FLAME TEST

GREEN FLAME: POSITIVE _____ NEGATIVE _____ ✓

PEROXIDE TESTING

ORGANIC PEROXIDES: POSITIVE _____ NEGATIVE _____ ✓

PCB TESTING

CHLOR-N-OIL PCB SCREEN: POSITIVE _____ NEGATIVE _____ ✓

PERCHLORIC NITRIC ACID TEST

NITRATES or CHLORATES: POSITIVE _____ NEGATIVE _____ ✓

NOTES: Acidic Inorganic liquid

ACCURA ANALYTICAL LABORATORY, INC.

DATA SHEET FOR COMPATIBILITY TEST

LABORATORY ID # 1266

SAMPLE STATION# 32

PHYSICAL OBSERVATION:

PHYSICAL STATE: SOLID _____ LIQUID SLUDGE _____

VISCOSITY: FLUID OILY _____ VISCOSUS _____

COLOR: Light Brown CLARITY: CLEAR OPAQUE _____

SAMPLE pH: 6 VOLATILITY IN PPM: HNU _____ OVA _____

SOLUBILITY TESTING

SOLUBLE IN WATER: pH OF SOLUTION: _____

HEAT EVOLVED: YES _____ NO _____

GAS EVOLVED: YES _____ NO _____

INSOLUBLE IN WATER: LIGHTER THAN WATER:

HEAVIER THAN WATER: _____

SOLUBILITY IN METHYLENE CHLORIDE: SOL INSOL

SOLUBILITY IN 5% HCL: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES _____ NO _____

pH OF EVOLVED GAS _____

SULFIDE TEST OF EVOLVED GAS: POS _____ NEG

OXIDIZER TEST: POS _____ NEG

SOLUBILITY IN 5% NaOH: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES NO

pH OF EVOLVED GAS _____

CYANIDE TEST: POS NEG

NH4 OR AMINE TEST: POS NEG

SOLUBILITY IN NaHCO3: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES NO

INGNITABILITY TESTING

MELTS: YES NO DETONATES: YES NO

IGNITES: YES NO SUPPORTS FLAME: YES NO

ASH: YES NO CARBON RESIDUE: YES NO

COLOR OF FLAME: yellow pH OF COMBUSTION GASES: 7

EVAPORATES BEFORE IGNITING: YES NO

HALOGEN FLAME TEST

GREEN FLAME: POSITIVE _____ NEGATIVE

PEROXIDE TESTING

ORGANIC PEROXIDES: POSITIVE _____ NEGATIVE

PCB TESTING

CHLOR-N-OIL PCB SCREEN: POSITIVE _____ NEGATIVE

PERCHLORIC NITRIC ACID TEST

NITRATES or CHLORATES: POSITIVE _____ NEGATIVE

NOTES: Liquid Hydrocarbon

ACCURA ANALYTICAL LABORATORY, INC.

DATA SHEET FOR COMPATIBILITY TEST

LABORATORY ID # 1267

SAMPLE STATION# 33

PHYSICAL OBSERVATION:

PHYSICAL STATE: SOLID _____ LIQUID SLUDGE _____

VISCOSITY: FLUID OILY _____ VISCOSU _____

COLOR: tan CLARITY: CLEAR _____ OPAQUE

SAMPLE pH: 2 VOLATILITY IN PPM: HNU _____ OVA _____

SOLUBILITY TESTING

SOLUBLE IN WATER: pH OF SOLUTION: 3

HEAT EVOLVED: YES NO

GAS EVOLVED: YES NO

INSOLUBLE IN WATER: LIGHTER THAN WATER: _____

HEAVIER THAN WATER: _____

SOLUBILITY IN METHYLENE CHLORIDE: SOL INSOL

SOLUBILITY IN 5% HCL: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES NO

pH OF EVOLVED GAS _____

SULFIDE TEST OF EVOLVED GAS: POS NEG

OXIDIZER TEST: POS NEG

SOLUBILITY IN 5% NaOH: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES NO

pH OF EVOLVED GAS _____

CYANIDE TEST: POS NEG

NH4 OR AMINE TEST: POS NEG

SOLUBILITY IN NaHC03: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES NO

INGNITABILITY TESTING

MELTS: YES NO DETONATES: YES NO

IGNITES: YES NO SUPPORTS FLAME: YES NO

ASH: YES NO CARBON RESIDUE: YES NO

COLOR OF FLAME: _____ pH OF COMBUSTION GASES: _____

EVAPORATES BEFORE IGNITING: YES NO

HALOGEN FLAME TEST

GREEN FLAME: POSITIVE _____ NEGATIVE

PEROXIDE TESTING

ORGANIC PEROXIDES: POSITIVE _____ NEGATIVE

PCB TESTING

CHLOR-N-OIL PCB SCREEN: POSITIVE _____ NEGATIVE

PERCHLORIC NITRIC ACID TEST

NITRATES or CHLORATES: POSITIVE NEGATIVE _____

NOTES: decide Inorganic liquid

ACCURA ANALYTICAL LABORATORY, INC.

DATA SHEET FOR COMPATIBILITY TEST

LABORATORY ID # 1268

SAMPLE STATION# 34

PHYSICAL OBSERVATION:

PHYSICAL STATE: SOLID LIQUID ✓ SLUDGE

VISCOSITY: FLUID OILY ✓ VISCOSU

COLOR: light brown CLARITY: CLEAR OPAQUE

SAMPLE pH: 6 VOLATILITY IN PPM: HNU OVA

SOLUBILITY TESTING

SOLUBLE IN WATER: pH OF SOLUTION: _____

HEAT EVOLVED: YES NO

GAS EVOLVED: YES NO

INSOLUBLE IN WATER: LIGHTER THAN WATER: ✓

HEAVIER THAN WATER: _____

SOLUBILITY IN METHYLENE CHLORIDE: SOL ✓ INSOL

SOLUBILITY IN 5% HCL: SOLUBLE INSOLUBLE ✓

GAS EVOLVED: YES NO

pH OF EVOLVED GAS _____

SULFIDE TEST OF EVOLVED GAS: POS NEG ✓

OXIDIZER TEST: POS NEG ✓

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SOLUBILITY IN 5% NaOH: SOLUBLE _____ INSOLUBLE _____

GAS EVOLVED: YES _____ NO _____

pH OF EVOLVED GAS _____

CYANIDE TEST: POS _____ NEG _____

NH4 OR AMINE TEST: POS _____ NEG _____

SOLUBILITY IN NaHCO3: SOLUBLE _____ INSOLUBLE _____ ✓

GAS EVOLVED: YES _____ NO _____

INGNITABILITY TESTING

MELTS: YES _____ NO ✓ DETONATES: YES _____ NO ✓

IGNITES: YES _____ NO ✓ SUPPORTS FLAME: YES _____ NO _____

ASH: YES _____ NO ✓ CARBON RESIDUE: YES _____ NO _____

COLOR OF FLAME: _____ pH OF COMBUSTION GASES: _____

EVAPORATES BEFORE IGNITING: YES _____ NO ✓

HALOGEN FLAME TEST

GREEN FLAME: POSITIVE ✓ NEGATIVE _____

PEROXIDE TESTING

ORGANIC PEROXIDES: POSITIVE _____ NEGATIVE _____

PCB TESTING

CHLOR-N-OIL PCB SCREEN: POSITIVE _____ NEGATIVE ✓

PERCHLORIC NITRIC ACID TEST

NITRATES or CHLORATES: POSITIVE _____ NEGATIVE _____

NOTES: check for acid (negative for ac)

Liquid Hydrocarbons

ACCUA ANALYTICAL LABORATORY, INC.

DATA SHEET FOR COMPATIBILITY TEST

LABORATORY ID # 1269

SAMPLE STATION# 35

PHYSICAL OBSERVATION:

PHYSICAL STATE: SOLID LIQUID SLUDGE

VISCOSITY: FLUID OILY VISCOSU

COLOR: CLARITY: CLEAR OPAQUE

SAMPLE pH: VOLATILITY IN PPM: HNU OVA

SOLUBILITY TESTING

SOLUBLE IN WATER: pH OF SOLUTION:

HEAT EVOLVED: YES NO

GAS EVOLVED: YES NO

INSOLUBLE IN WATER: LIGHTER THAN WATER:

HEAVIER THAN WATER:

SOLUBILITY IN METHYLENE CHLORIDE: SOL INSOL

SOLUBILITY IN 5% HCL: SOLUBLE INSOLUBLE

GAS EVOLVED: YES NO

pH OF EVOLVED GAS

SULFIDE TEST OF EVOLVED GAS: POS NEG

OXIDIZER TEST: POS NEG

SOLUBILITY IN 5% NaOH: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES NO

pH OF EVOLVED GAS _____

CYANIDE TEST: POS NEG

NH4 OR AMINE TEST: POS NEG

SOLUBILITY IN NaHCO3: SOLUBLE _____ INSOLUBLE

GAS EVOLVED: YES NO

INGNITABILITY TESTING

MELTS: YES NO DETONATES: YES NO

IGNITES: YES NO SUPPORTS FLAME: YES NO

ASH: YES NO CARBON RESIDUE: YES NO

COLOR OF FLAME: yellow pH OF COMBUSTION GASES: 7

EVAPORATES BEFORE IGNITING: YES NO

HALOGEN FLAME TEST

GREEN FLAME: POSITIVE NEGATIVE

PEROXIDE TESTING

ORGANIC PEROXIDES: POSITIVE NEGATIVE

PCB TESTING

CHLOR-N-OIL PCB SCREEN: POSITIVE NEGATIVE

PERCHLORIC NITRIC ACID TEST

NITRATES or CHLORATES: POSITIVE NEGATIVE

NOTES: Liquid Hydrocarbons

ACCURA ANALYTICAL LABORATORY, INC.

DATA SHEET FOR COMPATIBILITY TEST
*****LABORATORY ID # 1270SAMPLE STATION# 36

PHYSICAL OBSERVATION:

PHYSICAL STATE: SOLID LIQUID ✓ SLUDGE VISCOSITY: FLUID ✓ OILY VISCOSU COLOR: CLARITY: CLEAR ✓ OPAQUE SAMPLE pH: VOLATILITY IN PPM: HNU OVA

SOLUBILITY TESTING

SOLUBLE IN WATER: pH OF SOLUTION: 6HEAT EVOLVED: YES NO ✓GAS EVOLVED: YES NO ✓INSLUBLE IN WATER: LIGHTER THAN WATER: HEAVIER THAN WATER: SOLUBILITY IN METHYLENE CHLORIDE: SOL ✓ INSOL SOLUBILITY IN 5% HCL: SOLUBLE ✓ INSOLUBLE GAS EVOLVED: YES NO ✓pH OF EVOLVED GAS SULFIDE TEST OF EVOLVED GAS: POS NEG OXIDIZER TEST: POS NEG

SOLUBILITY IN 5% NaOH: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES NO

pH OF EVOLVED GAS _____

CYANIDE TEST: POS NEG

NH₄ OR AMINE TEST: POS NEG

SOLUBILITY IN NaHCO₃: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES NO

INGNITABILITY TESTING

MELTS: YES NO DETONATES: YES NO

IGNITES: YES NO SUPPORTS FLAME: YES NO

ASH: YES NO CARBON RESIDUE: YES NO

COLOR OF FLAME: _____ pH OF COMBUSTION GASES: _____

EVAPORATES BEFORE IGNITING: YES NO

HALOGEN FLAME TEST

GREEN FLAME: POSITIVE NEGATIVE

PEROXIDE TESTING

ORGANIC PEROXIDES: POSITIVE NEGATIVE

PCB TESTING

CHLOR-N-OIL PCB SCREEN: POSITIVE NEGATIVE

PERCHLORIC NITRIC ACID TEST

NITRATES or CHLORATES: POSITIVE NEGATIVE

NOTES: Neutral orange liquid

DATA SHEET FOR COMPATIBILITY TEST

ACCURA ANALYTICAL LABORATORY, INC.

SAMPLE STATION# 37

LABORATORY ID # 1271

PHYSICAL OBSERVATION:
=====

PHYSICAL STATE: SOLID LIQUID SLUDGE

VISCOSITY: FLUID OILY VISCOUS

COLOR: CLEAR OPAQUE

SAMPLE PH: VOLATILITY IN PPM: HNU OVA

SOLUBLE IN WATER: pH OF SOLUTION:

SOLUBILITY TESTING

GAS EVOLVED: YES NO

HEAT EVOLVED: YES NO

INSOLUBLE IN WATER: LIGHTER THAN WATER:

HEAVIER THAN WATER:

SOLUBILITY IN METHYLENE CHLORIDE: SOL INSOL

SOLUBILITY IN 5% HCl: SOLUBLE INSOLUBLE

GAS EVOLVED: YES NO

HEAT EVOLVED: YES NO

INSOLUBLE IN WATER: LIGHTER THAN WATER:

HEAVIER THAN WATER:

SOLUBLE IN 5% HCl: SOLUBLE INSOLUBLE

OXIDIZER TEST: POS NEG

SULFIDE TEST OF EVOLVED GAS: POS NEG

pH OF EVOLVED GAS

GAS EVOLVED: YES NO

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SOLUBILITY IN 5% NaOH: SOLUBLE _____ INSOLUBLE _____

GAS EVOLVED: YES _____ NO _____

pH OF EVOLVED GAS _____

CYANIDE TEST: POS _____ NEG

NH4 OR AMINE TEST: POS _____ NEG _____

SOLUBILITY IN NaHCO3: SOLUBLE _____ INSOLUBLE GAS EVOLVED: YES _____ NO

INGNITABILITY TESTING

MELTS: YES _____ NO DETONATES: YES _____ NO IGNITES: YES _____ NO _____ SUPPORTS FLAME: YES _____ NO ASH: YES NO _____ CARBON RESIDUE: YES NO _____

COLOR OF FLAME: _____ pH OF COMBUSTION GASES: _____

EVAPORATES BEFORE IGNITING: YES _____ NO

HALOGEN FLAME TEST

GREEN FLAME: POSITIVE _____ NEGATIVE

PEROXIDE TESTING

ORGANIC PEROXIDES: POSITIVE _____ NEGATIVE

PCB TESTING

CHLOR-N-OIL PCB SCREEN: POSITIVE _____ NEGATIVE

PERCHLORIC NITRIC ACID TEST

NITRATES or CHLORATES: POSITIVE _____ NEGATIVE NOTES: sludge Hydrocarbon

ACCURA ANALYTICAL LABORATORY, INC.

DATA SHEET FOR COMPATIBILITY TEST

LABORATORY ID # 1272

SAMPLE STATION# 38

=====

PHYSICAL OBSERVATION:

PHYSICAL STATE: SOLID LIQUID ✓ SLUDGE

VISCOSITY: FLUID ✓ OILY VISCOSUS

COLOR: Brown CLARITY: CLEAR OPAQUE

SAMPLE pH: 8 VOLATILITY IN PPM: HNU OVA

SOLUBILITY TESTING

SOLUBLE IN WATER: pH OF SOLUTION: 9

HEAT EVOLVED: YES NO ✓

GAS EVOLVED: YES NO ✓

INSLUBLE IN WATER: LIGHTER THAN WATER:

HEAVIER THAN WATER:

SOLUBILITY IN METHYLENE CHLORIDE: SOL INSOL ✓

SOLUBILITY IN 5% HCL: SOLUBLE ✓ INSOLUBLE

GAS EVOLVED: YES NO ✓

pH OF EVOLVED GAS

SULFIDE TEST OF EVOLVED GAS: POS NEG

OXIDIZER TEST: POS NEG

SOLUBILITY IN 5% NaOH: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES NO

pH OF EVOLVED GAS _____ -

CYANIDE TEST: POS NEG

NH4 OR AMINE TEST: POS NEG

SOLUBILITY IN NaHCO3: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES NO

IGNITABILITY TESTING

MELTS: YES NO DETONATES: YES NO

IGNITES: YES NO SUPPORTS FLAME: YES NO

ASH: YES NO CARBON RESIDUE: YES NO

COLOR OF FLAME: _____ pH OF COMBUSTION GASES: -

EVAPORATES BEFORE IGNITING: YES NO

HALOGEN FLAME TEST

GREEN FLAME: POSITIVE NEGATIVE

PEROXIDE TESTING

ORGANIC PEROXIDES: POSITIVE NEGATIVE

PCB TESTING

CHLOR-N-OIL PCB SCREEN: POSITIVE NEGATIVE

PERCHLORIC NITRIC ACID TEST

NITRATES or CHLORATES: POSITIVE NEGATIVE

NOTES: base Inorganic liquid

ACCUA ANALYTICAL LABORATORY, INC.

DATA SHEET FOR COMPATIBILITY TEST

LABORATORY ID # 1273

SAMPLE STATION# 39

PHYSICAL OBSERVATION:

PHYSICAL STATE: SOLID _____ LIQUID SLUDGE _____

VISCOSITY: FLUID OILY _____ VISCOSUS _____

COLOR: dark CLARITY: CLEAR _____ OPAQUE _____

SAMPLE pH: 5 VOLATILITY IN PPM: HNU _____ OVA _____

SOLUBILITY TESTING

SOLUBLE IN WATER: pH OF SOLUTION: 6

HEAT EVOLVED: YES NO

GAS EVOLVED: YES NO

INSOLUBLE IN WATER: LIGHTER THAN WATER: _____

HEAVIER THAN WATER: _____

SOLUBILITY IN METHYLENE CHLORIDE: SOL INSOL

SOLUBILITY IN 5% HCL: SOLUBLE INSOLUBLE

GAS EVOLVED: YES NO

pH OF EVOLVED GAS _____

SULFIDE TEST OF EVOLVED GAS: POS NEG

OXIDIZER TEST: POS NEG

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SOLUBILITY IN 5% NaOH: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES ____ NO

pH OF EVOLVED GAS _____

CYANIDE TEST: POS ____ NEG

NH4 OR AMINE TEST: POS ____ NEG

SOLUBILITY IN NaHC03: SOLUBLE ^{partly} INSOLUBLE _____

GAS EVOLVED: YES ____ NO

INGNITABILITY TESTING

MELTS: YES ____ NO ____ DETONATES: YES ____ NO

IGNITES: YES ____ NO ____ SUPPORTS FLAME: YES ____ NO ____

ASH: YES ____ NO ____ CARBON RESIDUE: YES ____ NO ____

COLOR OF FLAME: _____ pH OF COMBUSTION GASES: _____

EVAPORATES BEFORE IGNITING: YES ____ NO ____

HALOGEN FLAME TEST

GREEN FLAME: POSITIVE _____ NEGATIVE

PEROXIDE TESTING

ORGANIC PEROXIDES: POSITIVE _____ NEGATIVE

PCB TESTING

CHLOR-N-OIL PCB SCREEN: POSITIVE _____ NEGATIVE

PERCHLORIC NITRIC ACID TEST

NITRATES or CHLORATES: POSITIVE _____ NEGATIVE

NOTES: Neutral organic liquid

ACCURA ANALYTICAL LABORATORY, INC.

DATA SHEET FOR COMPATIBILITY TEST

LABORATORY ID # 1274

SAMPLE STATION# 40

=====

PHYSICAL OBSERVATION:

PHYSICAL STATE: SOLID _____ LIQUID SLUDGE _____

VISCOSITY: FLUID _____ OILY _____ VISCOSUS

COLOR: Amber CLARITY: CLEAR _____ OPAQUE _____

SAMPLE pH: 7 VOLATILITY IN PPM: HNU _____ OVA _____

SOLUBILITY TESTING

SOLUBLE IN WATER: pH OF SOLUTION: _____

HEAT EVOLVED: YES NO

GAS EVOLVED: YES NO

INSLUBLE IN WATER: LIGHTER THAN WATER:

HEAVIER THAN WATER: _____

SOLUBILITY IN METHYLENE CHLORIDE: SOL INSOL

SOLUBILITY IN 5% HCL: SOLUBLE INSOLUBLE

GAS EVOLVED: YES NO

pH OF EVOLVED GAS _____

SULFIDE TEST OF EVOLVED GAS: POS NEG

OXIDIZER TEST: POS NEG

SOLUBILITY IN 5% NaOH: SOLUBLE _____ INSOLUBLE _____
partly soluble

GAS EVOLVED: YES ____ NO

pH OF EVOLVED GAS _____

CYANIDE TEST: POS ____ NEG

NH4 OR AMINE TEST: POS ____ NEG

SOLUBILITY IN NaHCO3: SOLUBLE _____ INSOLUBLE

GAS EVOLVED: YES ____ NO _____

IGNITABILITY TESTING

MELTS: YES ____ NO _____ DETONATES: YES ____ NO _____

IGNITES: YES ____ NO _____ SUPPORTS FLAME: YES NO _____

ASH: YES ____ NO _____ CARBON RESIDUE: YES ____ NO _____

COLOR OF FLAME: _____ pH OF COMBUSTION GASES: _____

EVAPORATES BEFORE IGNITING: YES ____ NO _____

HALOGEN FLAME TEST

GREEN FLAME: POSITIVE _____ NEGATIVE

PEROXIDE TESTING

ORGANIC PEROXIDES: POSITIVE _____ NEGATIVE

PCB TESTING

CHLOR-N-OIL PCB SCREEN: POSITIVE _____ NEGATIVE

PERCHLORIC NITRIC ACID TEST

NITRATES or CHLORATES: POSITIVE _____ NEGATIVE

NOTES: Liquid Hydrocarbon

ACCURA ANALYTICAL LABORATORY, INC.

DATA SHEET FOR COMPATIBILITY TEST

LABORATORY ID # 1275

SAMPLE STATION# 41

PHYSICAL OBSERVATION:

PHYSICAL STATE: SOLID _____ LIQUID SLUDGE _____

VISCOSITY: FLUID OILY _____ VISCOSUS _____

COLOR: purple CLARITY: CLEAR OPAQUE _____

SAMPLE pH: 2 VOLATILITY IN PPM: HNU _____ OVA _____

SOLUBILITY TESTING

SOLUBLE IN WATER: pH OF SOLUTION: 6

HEAT EVOLVED: YES NO

GAS EVOLVED: YES NO

INSLUBLE IN WATER: LIGHTER THAN WATER: _____

HEAVIER THAN WATER: _____

SOLUBILITY IN METHYLENE CHLORIDE: SOL ^{partially soluble} INSOL _____

SOLUBILITY IN 5% HCL: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES NO

pH OF EVOLVED GAS _____

SULFIDE TEST OF EVOLVED GAS: POS NEG

OXIDIZER TEST: POS NEG

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SOLUBILITY IN 5% NaOH: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES ____ NO

pH OF EVOLVED GAS _____

CYANIDE TEST: POS ____ NEG

NH4 OR AMINE TEST: POS ____ NEG

SOLUBILITY IN NaHCO3: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES ____ NO

INGNITABILITY TESTING

MELTS: YES ____ NO ____ DETONATES: YES ____ NO _____

IGNITES: YES ____ NO ____ SUPPORTS FLAME: YES ____ NO _____

ASH: YES NO ____ CARBON RESIDUE: YES ____ NO _____

COLOR OF FLAME: _____ pH OF COMBUSTION GASES: _____

EVAPORATES BEFORE IGNITING: YES ____ NO

HALOGEN FLAME TEST

GREEN FLAME: POSITIVE _____ NEGATIVE

PEROXIDE TESTING

ORGANIC PEROXIDES: POSITIVE _____ NEGATIVE

PCB TESTING

CHLOR-N-OIL PCB SCREEN: POSITIVE _____ NEGATIVE

PERCHLORIC NITRIC ACID TEST

NITRATES or CHLORATES: POSITIVE _____ NEGATIVE

NOTES: Acid organic liquid

ACCURA ANALYTICAL LABORATORY, INC.

DATA SHEET FOR COMPATIBILITY TEST

LABORATORY ID # 1276

SAMPLE STATION# 42

PHYSICAL OBSERVATION:

PHYSICAL STATE: SOLID _____ LIQUID SLUDGE _____

VISCOSITY: FLUID OILY _____ VISCOSU _____

COLOR: green CLARITY: CLEAR OPAQUE _____

SAMPLE pH: 7 VOLATILITY IN PPM: HNU _____ OVA _____

SOLUBILITY TESTING

SOLUBLE IN WATER: pH OF SOLUTION: 6

HEAT EVOLVED: YES NO

GAS EVOLVED: YES NO

INSOLUBLE IN WATER: LIGHTER THAN WATER: partially soluble

HEAVIER THAN WATER: partially soluble

SOLUBILITY IN METHYLENE CHLORIDE: SOL INSOL

SOLUBILITY IN 5% HCL: SOLUBLE INSOLUBLE

GAS EVOLVED: YES NO

pH OF EVOLVED GAS _____

SULFIDE TEST OF EVOLVED GAS: POS NEG

OXIDIZER TEST: POS NEG

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SOLUBILITY IN 5% NaOH: SOLUBLE INSOLUBLE _____
partly

GAS EVOLVED: YES ____ NO

pH OF EVOLVED GAS _____

CYANIDE TEST: POS ____ NEG

NH4 OR AMINE TEST: POS ____ NEG

SOLUBILITY IN NaHCO3: SOLUBLE *partly* INSOLUBLE _____

GAS EVOLVED: YES ____ NO

INGNITABILITY TESTING

MELTS: YES ____ NO DETONATES: YES ____ NO

IGNITES: YES ____ NO SUPPORTS FLAME: YES NO ____

ASH: YES ____ NO CARBON RESIDUE: YES ____ NO

COLOR OF FLAME: *yellow* pH OF COMBUSTION GASES: *7*

EVAPORATES BEFORE IGNITING: YES ____ NO

HALOGEN FLAME TEST

GREEN FLAME: POSITIVE ____ NEGATIVE

PEROXIDE TESTING

ORGANIC PEROXIDES: POSITIVE ____ NEGATIVE

PCB TESTING

CHLOR-N-OIL PCB SCREEN: POSITIVE ____ NEGATIVE

PERCHLORIC NITRIC ACID TEST

NITRATES or CHLORATES: POSITIVE ____ NEGATIVE

NOTES: *Neutral organic liquid*

ACCURA ANALYTICAL LABORATORY, INC.

DATA SHEET FOR COMPATIBILITY TEST

LABORATORY ID # 1277

SAMPLE STATION# 43

PHYSICAL OBSERVATION:

PHYSICAL STATE: SOLID _____ LIQUID SLUDGE _____

VISCOSITY: FLUID OILY _____ VISCOSU _____

COLOR: late yellow CLARITY: CLEAR OPAQUE _____

SAMPLE pH: 7 VOLATILITY IN PPM: HNU _____ OVA _____

SOLUBILITY TESTING

SOLUBLE IN WATER: pH OF SOLUTION: 6

HEAT EVOLVED: YES NO

GAS EVOLVED: YES NO

INSLUBLE IN WATER: LIGHTER THAN WATER: _____

HEAVIER THAN WATER: _____

SOLUBILITY IN METHYLENE CHLORIDE: SOL INSOL

SOLUBILITY IN 5% HCL: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES NO

pH OF EVOLVED GAS _____

SULFIDE TEST OF EVOLVED GAS: POS NEG

OXIDIZER TEST: POS NEG

SOLUBILITY IN 5% NaOH: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES NO

pH OF EVOLVED GAS _____

CYANIDE TEST: POS NEG

NH₄ OR AMINE TEST: POS NEG

SOLUBILITY IN NaHCO₃: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES NO

INGNITABILITY TESTING

MELTS: YES NO DETONATES: YES NO

IGNITES: YES NO SUPPORTS FLAME: YES NO

ASH: YES NO CARBON RESIDUE: YES NO

COLOR OF FLAME: yellow pH OF COMBUSTION GASES: 7

EVAPORATES BEFORE IGNITING: YES NO

HALOGEN FLAME TEST

GREEN FLAME: POSITIVE NEGATIVE

PEROXIDE TESTING

ORGANIC PEROXIDES: POSITIVE NEGATIVE

PCB TESTING

CHLOR-N-OIL PCB SCREEN: POSITIVE NEGATIVE

PERCHLORIC NITRIC ACID TEST

NITRATES or CHLORATES: POSITIVE NEGATIVE

NOTES: neutral organic liquid

ACCURA ANALYTICAL LABORATORY, INC.

DATA SHEET FOR COMPATIBILITY TEST

LABORATORY ID # 1278

SAMPLE STATION# 44

PHYSICAL OBSERVATION:

PHYSICAL STATE: SOLID _____ LIQUID SLUDGE _____

VISCOSITY: FLUID OILY _____ VISCOSUS _____

COLOR: Dark Brown CLARITY: CLEAR _____ OPAQUE

SAMPLE pH: 4 VOLATILITY IN PPM: HNU _____ OVA _____

SOLUBILITY TESTING

SOLUBLE IN WATER: pH OF SOLUTION: _____

HEAT EVOLVED: YES _____ NO _____

GAS EVOLVED: YES _____ NO _____

INSLUBLE IN WATER: LIGHTER THAN WATER:
^ HEAVIER THAN WATER: _____

HEAVIER THAN WATER: _____

SOLUBILITY IN METHYLENE CHLORIDE: SOL INSOL _____

SOLUBILITY IN 5% HCL: SOLUBLE _____ INSOLUBLE

GAS EVOLVED: YES _____ NO

pH OF EVOLVED GAS _____

SULFIDE TEST OF EVOLVED GAS: POS _____ NEG

OXIDIZER TEST: POS _____ NEG

Pavlis

SOLUBILITY IN 5% NaOH: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES ____ NO

pH OF EVOLVED GAS _____

CYANIDE TEST: POS ____ NEG

NH4 OR AMINE TEST: POS ____ NEG

SOLUBILITY IN NaHCO3: SOLUBLE _____ INSOLUBLE

GAS EVOLVED: YES ____ NO _____

INGNITABILITY TESTING

MELTS: YES ____ NO DETONATES: YES ____ NO

IGNITES: YES ____ NO SUPPORTS FLAME: YES NO _____

ASH: YES ____ NO _____ CARBON RESIDUE: YES NO _____

COLOR OF FLAME: yellow pH OF COMBUSTION GASES: 2

EVAPORATES BEFORE IGNITING: YES ____ NO

HALOGEN FLAME TEST

GREEN FLAME: POSITIVE _____ NEGATIVE

PEROXIDE TESTING

ORGANIC PEROXIDES: POSITIVE _____ NEGATIVE

PCB TESTING

CHLOR-N-OIL PCB SCREEN: POSITIVE _____ NEGATIVE

PERCHLORIC NITRIC ACID TEST

NITRATES or CHLORATES: POSITIVE _____ NEGATIVE

NOTES: Liquid Hydrocarbon

ACCURA ANALYTICAL LABORATORY, INC.

DATA SHEET FOR COMPATIBILITY TEST

LABORATORY ID # 1279

SAMPLE STATION# 45

=====

PHYSICAL OBSERVATION:

PHYSICAL STATE: SOLID _____ LIQUID _____ SLUDGE

VISCOSITY: FLUID _____ OILY _____ VISCOSUS

COLOR: Various colors CLARITY: CLEAR _____ OPAQUE

SAMPLE pH: - VOLATILITY IN PPM: HNU _____ OVA _____

SOLUBILITY TESTING

SOLUBLE IN WATER: pH OF SOLUTION: _____

HEAT EVOLVED: YES NO

GAS EVOLVED: YES NO

INS^OLUBLE IN WATER: LIGHTER THAN WATER:

HEAVIER THAN WATER: _____

SOLUBILITY IN METHYLENE CHLORIDE: SOL INSOL

SOLUBILITY IN 5% HCL: SOLUBLE INSOLUBLE

GAS EVOLVED: YES NO

pH OF EVOLVED GAS _____

SULFIDE TEST OF EVOLVED GAS: POS NEG

OXIDIZER TEST: POS NEG

SOLUBILITY IN 5% NaOH: SOLUBLE _____ INSOLUBLE

GAS EVOLVED: YES NO

pH OF EVOLVED GAS _____

CYANIDE TEST: POS NEG

NH₄ OR AMINE TEST: POS NEG

SOLUBILITY IN NaHCO₃: SOLUBLE _____ INSOLUBLE

GAS EVOLVED: YES NO _____

INGNITABILITY TESTING

MELTS: YES NO _____ DETONATES: YES NO

IGNITES: YES NO _____ SUPPORTS FLAME: YES NO _____

ASH: YES NO CARBON RESIDUE: YES NO

COLOR OF FLAME: _____ pH OF COMBUSTION GASES: _____

EVAPORATES BEFORE IGNITING: YES NO

HALOGEN FLAME TEST

GREEN FLAME: POSITIVE _____ NEGATIVE _____

PEROXIDE TESTING

ORGANIC PEROXIDES: POSITIVE _____ NEGATIVE

PCB TESTING

CHLOR-N-OIL PCB SCREEN: POSITIVE _____ NEGATIVE

PERCHLORIC NITRIC ACID TEST

NITRATES or CHLORATES: POSITIVE _____ NEGATIVE

NOTES: sludge Hydrocarbons

ACCURA ANALYTICAL LABORATORY, INC.

DATA SHEET FOR COMPATIBILITY TEST

LABORATORY ID # 1280

SAMPLE STATION# 46

PHYSICAL OBSERVATION:

PHYSICAL STATE: SOLID _____ LIQUID SLUDGE _____

VISCOSITY: FLUID OILY _____ VISCOSU _____

COLOR: Light yellow CLARITY: CLEAR _____ OPAQUE

SAMPLE pH: 7 VOLATILITY IN PPM: HNU _____ OVA _____

SOLUBILITY TESTING

SOLUBLE IN WATER: pH OF SOLUTION: 6

HEAT EVOLVED: YES NO

GAS EVOLVED: YES NO

INSLUBLE IN WATER: LIGHTER THAN WATER:

HEAVIER THAN WATER:

SOLUBILITY IN METHYLENE CHLORIDE: SOL INSOL

SOLUBILITY IN 5% HCL: SOLUBLE INSOLUBLE

GAS EVOLVED: YES NO

pH OF EVOLVED GAS

SULFIDE TEST OF EVOLVED GAS: POS NEG

OXIDIZER TEST: POS NEG

SOLUBILITY IN 5% NaOH: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES ____ NO

pH OF EVOLVED GAS _____

CYANIDE TEST: POS ____ NEG

NH4 OR AMINE TEST: POS ____ NEG

SOLUBILITY IN NaHCO3: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES ____ NO

IGNITABILITY TESTING

MELTS: YES ____ NO ____ DETONATES: YES ____ NO

IGNITES: YES ____ NO ____ SUPPORTS FLAME: YES ____ NO ____

ASH: YES ____ NO CARBON RESIDUE: YES ____ NO

COLOR OF FLAME: _____ pH OF COMBUSTION GASES: _____

EVAPORATES BEFORE IGNITING: YES ____ NO

HALOGEN FLAME TEST

GREEN FLAME: POSITIVE _____ NEGATIVE

PEROXIDE TESTING

ORGANIC PEROXIDES: POSITIVE _____ NEGATIVE

PCB TESTING

CHLOR-N-OIL PCB SCREEN: POSITIVE _____ NEGATIVE

PERCHLORIC NITRIC ACID TEST

NITRATES or CHLORATES: POSITIVE _____ NEGATIVE

NOTES: Stable Inorganic liquid

ACCUA ANALYTICAL LABORATORY, INC.

DATA SHEET FOR COMPATIBILITY TEST

LABORATORY ID # 1281

SAMPLE STATION# 47

=====

PHYSICAL OBSERVATION:

PHYSICAL STATE: SOLID _____ LIQUID SLUDGE _____

VISCOSITY: FLUID OILY _____ VISCOSU _____

COLOR: Blue CLARITY: CLEAR _____ OPAQUE

SAMPLE pH: 1 VOLATILITY IN PPM: HNU _____ OVA _____

SOLUBILITY TESTING

SOLUBLE IN WATER: pH OF SOLUTION: 1

HEAT EVOLVED: YES NO

GAS EVOLVED: YES NO

INSLUBLE IN WATER: LIGHTER THAN WATER:

HEAVIER THAN WATER:

SOLUBILITY IN METHYLENE CHLORIDE: SOL INSOL

SOLUBILITY IN 5% HCL: SOLUBLE INSOLUBLE

GAS EVOLVED: YES NO

pH OF EVOLVED GAS

SULFIDE TEST OF EVOLVED GAS: POS NEG

OXIDIZER TEST: POS NEG

SOLUBILITY IN 5% NaOH: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES ____ NO

pH OF EVOLVED GAS _____ -

CYANIDE TEST: POS ____ NEG

NH₄ OR AMINE TEST: POS ____ NEG

SOLUBILITY IN NaHCO₃: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES ____ NO

IGNITABILITY TESTING

MELTS: YES ____ NO DETONATES: YES ____ NO _____

IGNITES: YES ____ NO SUPPORTS FLAME: YES ____ NO _____

ASH: YES ____ NO ____ CARBON RESIDUE: YES ____ NO _____

COLOR OF FLAME: _____ pH OF COMBUSTION GASES: _____

EVAPORATES BEFORE IGNITING: YES ____ NO

HALOGEN FLAME TEST

GREEN FLAME: POSITIVE _____ NEGATIVE

PEROXIDE TESTING

ORGANIC PEROXIDES: POSITIVE _____ NEGATIVE

PCB TESTING

CHLOR-N-OIL PCB SCREEN: POSITIVE _____ NEGATIVE

PERCHLORIC NITRIC ACID TEST

NITRATES or CHLORATES: POSITIVE _____ NEGATIVE

NOTES: Hydroic Inorganic liquid

ACCURA ANALYTICAL LABORATORY, INC.

DATA SHEET FOR COMPATIBILITY TEST

LABORATORY ID # 1282

SAMPLE STATION# 48

PHYSICAL OBSERVATION:

PHYSICAL STATE: SOLID LIQUID SLUDGE

VISCOSITY: FLUID OILY VISCOSUS

COLOR: Brown Black CLARITY: CLEAR OPAQUE

SAMPLE pH: 7 VOLATILITY IN PPM: HNU OVA

SOLUBILITY TESTING

SOLUBLE IN WATER: pH OF SOLUTION: 6

HEAT EVOLVED: YES NO

GAS EVOLVED: YES NO

INSLUBLE IN WATER: LIGHTER THAN WATER:

HEAVIER THAN WATER:

SOLUBILITY IN METHYLENE CHLORIDE: SOL INSOL

SOLUBILITY IN 5% HCL: SOLUBLE INSOLUBLE

GAS EVOLVED: YES NO

pH OF EVOLVED GAS

SULFIDE TEST OF EVOLVED GAS: POS NEG

OXIDIZER TEST: POS NEG

SOLUBILITY IN 5% NaOH: SOLUBLE INSOLUBLE

GAS EVOLVED: YES NO

pH OF EVOLVED GAS

CYANIDE TEST: POS NEG

NH₄ OR AMINE TEST: POS NEG

SOLUBILITY IN NaHCO₃: SOLUBLE INSOLUBLE

GAS EVOLVED: YES NO

IGNITABILITY TESTING

MELTS: YES NO DETONATES: YES NO

IGNITES: YES NO SUPPORTS FLAME: YES NO

ASH: YES NO CARBON RESIDUE: YES NO

COLOR OF FLAME: pH OF COMBUSTION GASES:

EVAPORATES BEFORE IGNITING: YES NO

HALOGEN FLAME TEST

GREEN FLAME: POSITIVE NEGATIVE

PEROXIDE TESTING

ORGANIC PEROXIDES: POSITIVE NEGATIVE

PCB TESTING

CHLOR-N-OIL PCB SCREEN: POSITIVE NEGATIVE

PERCHLORIC NITRIC ACID TEST

NITRATES or CHLORATES: POSITIVE NEGATIVE

NOTES: Neutral organic liquid

ACCURA ANALYTICAL LABORATORY, INC.

DATA SHEET FOR COMPATIBILITY TEST

LABORATORY ID # 1283

SAMPLE STATION# 49

PHYSICAL OBSERVATION:

PHYSICAL STATE: SOLID _____ LIQUID SLUDGE _____

VISCOSITY: FLUID _____ OILY VISCous

COLOR: Brown CLARITY: CLEAR _____ OPAQUE

SAMPLE pH: 7 VOLATILITY IN PPM: HNU _____ OVA _____

SOLUBILITY TESTING

SOLUBLE IN WATER: pH OF SOLUTION: _____

HEAT EVOLVED: YES _____ NO _____

GAS EVOLVED: YES _____ NO _____

INSLUBLE IN WATER: LIGHTER THAN WATER:

HEAVIER THAN WATER: _____

SOLUBILITY IN METHYLENE CHLORIDE: SOL INSOL _____

SOLUBILITY IN 5% HCL: SOLUBLE _____ INSOLUBLE

GAS EVOLVED: YES _____ NO _____

pH OF EVOLVED GAS _____

SULFIDE TEST OF EVOLVED GAS: POS _____ NEG

OXIDIZER TEST: POS _____ NEG

SOLUBILITY IN 5% NaOH: SOLUBLE _____ INSOLUBLE

GAS EVOLVED: YES NO

pH OF EVOLVED GAS

CYANIDE TEST: POS NEG

NH4 OR AMINE TEST: POS NEG

SOLUBILITY IN NaHC03: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES NO

INGNITABILITY TESTING

MELTS: YES NO

DETONATES: YES NO

IGNITES: YES NO

SUPPORTS FLAME: YES NO

ASH: YES NO

CARBON RESIDUE: YES NO

COLOR OF FLAME: yellow pH OF COMBUSTION GASES: ?

EVAPORATES BEFORE IGNITING: YES NO

HALOGEN FLAME TEST

GREEN FLAME: POSITIVE _____ NEGATIVE

PEROXIDE TESTING

ORGANIC PEROXIDES: POSITIVE _____ NEGATIVE

PCB TESTING

CHLOR-N-OIL PCB SCREEN: POSITIVE _____ NEGATIVE

PERCHLORIC NITRIC ACID TEST

NITRATES or CHLORATES: POSITIVE _____ NEGATIVE

NOTES: liquid Hydrocarbon

ACURA ANALYTICAL LABORATORY, INC.

DATA SHEET FOR COMPATIBILITY TEST

LABORATORY ID # 1284

SAMPLE STATION# 50

PHYSICAL OBSERVATION:

PHYSICAL STATE: SOLID LIQUID SLUDGE

VISCOSITY: FLUID OILY VISCOSUS

COLOR: white CLARITY: CLEAR OPAQUE

SAMPLE pH: 7 VOLATILITY IN PPM: HNU OVA

SOLUBILITY TESTING

SOLUBLE IN WATER: pH OF SOLUTION: 7

HEAT EVOLVED: YES NO

GAS EVOLVED: YES NO

INSLUBLE IN WATER: LIGHTER THAN WATER:

HEAVIER THAN WATER:

SOLUBILITY IN METHYLENE CHLORIDE: SOL INSOL

SOLUBILITY IN 5% HCL: SOLUBLE partly INSOLUBLE

GAS EVOLVED: YES NO

pH OF EVOLVED GAS -

SULFIDE TEST OF EVOLVED GAS: POS NEG

OXIDIZER TEST: POS NEG

SOLUBILITY IN 5% NaOH: SOLUBLE _____ INSOLUBLE

GAS EVOLVED: YES NO

pH OF EVOLVED GAS _____

CYANIDE TEST: POS NEG _____

NH4 OR AMINE TEST: POS NEG

SOLUBILITY IN NaHCO3: SOLUBLE _____ INSOLUBLE

GAS EVOLVED: YES NO

INGNITABILITY TESTING

MELTS: YES NO

DETONATES: YES NO

IGNITES: YES NO _____

SUPPORTS FLAME: YES NO _____

ASH: YES NO

CARBON RESIDUE: YES NO

COLOR OF FLAME: yellow pH OF COMBUSTION GASES: 7

EVAPORATES BEFORE IGNITING: YES NO

HALOGEN FLAME TEST

GREEN FLAME: POSITIVE _____ NEGATIVE

PEROXIDE TESTING

ORGANIC PEROXIDES: POSITIVE _____ NEGATIVE

PCB TESTING

CHLOR-N-OIL PCB SCREEN: POSITIVE _____ NEGATIVE

PERCHLORIC NITRIC ACID TEST

NITRATES or CHLORATES: POSITIVE _____ NEGATIVE

NOTES: Neutral inorganic liquid

 DATA SHEET FOR COMPATIBILITY TEST
 ACCURA ANALYTICAL LABORATORY, INC.

SAMPLE STATEMENT # 51

LABORATORY ID # 1285

PHYSICAL OBSERVATION:

PHYSICAL STATE: SOLID LIQUID SLUDGE

VISCOSITY: FLUID OILY VISCOUS

COLOR: CLEAR OPAQUE

SAMPLE PH: VOLATILITY IN PPB: HNU OVA

SOLUBILITY TESTING

SOLUBLE IN WATER: pH OR SOLUTION: 7

GAS EVOLVED: YES NO

HEAT EVOLVED: YES NO

SOLUBILITY IN METHYLENE CHLORIDE: SOL INSOL

HEAVIER THAN WATER:

INSOLUBLE IN WATER: LIGHTER THAN WATER:

GAS EVOLVED: YES NO

HEAT EVOLVED: YES NO

SOLUBILITY IN 5% HCL: SOLUBLE INSOLUBLE

pH OF EVOLVED GAS

GAS EVOLVED: YES NO

SULFIDE TEST OF EVOLVED GAS: POS NEG

OXIDIZER TEST: POS NEG

SOLUBILITY IN 5% NaOH: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES ____ NO

pH OF EVOLVED GAS _____

CYANIDE TEST: POS ____ NEG _____

NH₄ OR AMINE TEST: POS ____ NEG

SOLUBILITY IN NaHCO₃: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES ____ NO

IGNITABILITY TESTING

MELTS: YES ____ NO ____ DETONATES: YES ____ NO _____

IGNITES: YES NO _____ SUPPORTS FLAME: YES ____ NO _____

ASH: YES ____ NO ____ CARBON RESIDUE: YES ____ NO

COLOR OF FLAME: _____ pH OF COMBUSTION GASES: _____

EVAPORATES BEFORE IGNITING: YES ____ NO

HALOGEN FLAME TEST

GREEN FLAME: POSITIVE _____ NEGATIVE

PEROXIDE TESTING

ORGANIC PEROXIDES: POSITIVE _____ NEGATIVE

PCB TESTING

CHLOR-N-OIL PCB SCREEN: POSITIVE _____ NEGATIVE

PERCHLORIC NITRIC ACID TEST

NITRATES or CHLORATES: POSITIVE _____ NEGATIVE

NOTES: Neutral Inorganic liquid

ACCURA ANALYTICAL LABORATORY, INC.

DATA SHEET FOR COMPATIBILITY TEST

LABORATORY ID # 1286

SAMPLE STATION# 52

PHYSICAL OBSERVATION:

PHYSICAL STATE: SOLID LIQUID SLUDGE

VISCOSITY: FLUID OILY VISCOSUS

COLOR: tan CLARITY: CLEAR OPAQUE

SAMPLE pH: 7 VOLATILITY IN PPM: HNU OVA

SOLUBILITY TESTING

SOLUBLE IN WATER: pH OF SOLUTION: 7.1 (6)

HEAT EVOLVED: YES NO

GAS EVOLVED: YES NO

INSOLUBLE IN WATER: LIGHTER THAN WATER:

HEAVIER THAN WATER:

SOLUBILITY IN METHYLENE CHLORIDE: SOL INSOL

SOLUBILITY IN 5% HCL: SOLUBLE 1.14 INSOLUBLE

GAS EVOLVED: YES NO

pH OF EVOLVED GAS

SULFIDE TEST OF EVOLVED GAS: POS NEG

OXIDIZER TEST: POS NEG

SOLUBILITY IN 5% NaOH: SOLUBLE ✓ INSOLUBLE ✓

GAS EVOLVED: YES NO ✓

pH OF EVOLVED GAS _____

CYANIDE TEST: POS NEG

NH4 OR AMINE TEST: POS NEG ✓

SOLUBILITY IN NaHCO3: SOLUBLE _____ INSOLUBLE ✓

GAS EVOLVED: YES NO ✓

INGNITABILITY TESTING

MELTS: YES NO ✓ DETONATES: YES NO ✓

IGNITES: YES ✓ NO SUPPORTS FLAME: YES NO ✓

ASH: YES NO ✓ CARBON RESIDUE: YES NO ✓

COLOR OF FLAME: _____ pH OF COMBUSTION GASES: _____

EVAPORATES BEFORE IGNITING: YES NO ✓

HALOGEN FLAME TEST

GREEN FLAME: POSITIVE NEGATIVE ✓

PEROXIDE TESTING

ORGANIC PEROXIDES: POSITIVE NEGATIVE ✓

PCB TESTING

CHLOR-N-OIL PCB SCREEN: POSITIVE NEGATIVE ✓

PERCHLORIC NITRIC ACID TEST

NITRATES or CHLORATES: POSITIVE NEGATIVE ✓

NOTES: Neutral Inorganic liquid

ACCUA ANALYTICAL LABORATORY, INC.

DATA SHEET FOR COMPATIBILITY TEST

LABORATORY ID # 1287

SAMPLE STATION# 53

PHYSICAL OBSERVATION:

PHYSICAL STATE: SOLID LIQUID ✓ SLUDGE

VISCOSITY: FLUID ✓ OILY VISCOSUS

COLOR: pink CLARITY: CLEAR ✓ OPAQUE

SAMPLE pH: 12 VOLATILITY IN PPM: HNU OVA

SOLUBILITY TESTING

SOLUBLE IN WATER: pH OF SOLUTION: 11

HEAT EVOLVED: YES NO

GAS EVOLVED: YES NO

INSOLUBLE IN WATER: LIGHTER THAN WATER:

HEAVIER THAN WATER:

SOLUBILITY IN METHYLENE CHLORIDE: SOL INSOL ✓

SOLUBILITY IN 5% HCL: SOLUBLE ✓ INSOLUBLE

GAS EVOLVED: YES NO ✓

pH OF EVOLVED GAS

SULFIDE TEST OF EVOLVED GAS: POS NEG ✓

OXIDIZER TEST: POS NEG ✓

SOLUBILITY IN 5% NaOH: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES ____ NO

pH OF EVOLVED GAS _____

CYANIDE TEST: POS ____ NEG _____

NH4 OR AMINE TEST: POS ____ NEG

SOLUBILITY IN NaHCO3: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES ____ NO

INGNITABILITY TESTING

MELTS: YES ____ NO DETONATES: YES ____ NO

IGNITES: YES ____ NO SUPPORTS FLAME: YES ____ NO _____

ASH: YES ____ NO CARBON RESIDUE: YES ____ NO

COLOR OF FLAME: _____ pH OF COMBUSTION GASES: _____

EVAPORATES BEFORE IGNITING: YES ____ NO

HALOGEN FLAME TEST

GREEN FLAME: POSITIVE _____ NEGATIVE

PEROXIDE TESTING

ORGANIC PEROXIDES: POSITIVE _____ NEGATIVE

PCB TESTING

CHLOR-N-OIL PCB SCREEN: POSITIVE _____ NEGATIVE

PERCHLORIC NITRIC ACID TEST

NITRATES or CHLORATES: POSITIVE _____ NEGATIVE

NOTES: base Inorganic liquid

ACCUA ANALYTICAL LABORATORY, INC.

DATA SHEET FOR COMPATIBILITY TEST

LABORATORY ID # 1288

SAMPLE STATION# 54

=====

PHYSICAL OBSERVATION:

PHYSICAL STATE: SOLID _____ LIQUID _____ SLUDGE _____

VISCOSITY: FLUID _____ OILY _____ VISCOSUS _____

COLOR: _____ CLARITY: CLEAR _____ OPAQUE _____

SAMPLE pH: _____ VOLATILITY IN PPM: HNU _____ OVA _____

SOLUBILITY TESTING

SOLUBLE IN WATER: pH OF SOLUTION: _____

HEAT EVOLVED: YES NO

GAS EVOLVED: YES NO

INSLUBLE IN WATER: LIGHTER THAN WATER: _____

HEAVIER THAN WATER: _____

SOLUBILITY IN METHYLENE CHLORIDE: SOL INSOL

SOLUBILITY IN 5% HCL: SOLUBLE INSOLUBLE ✓

GAS EVOLVED: YES NO ✓

pH OF EVOLVED GAS _____

SULFIDE TEST OF EVOLVED GAS: POS NEG ✓

OXIDIZER TEST: POS NEG ✓

SOLUBILITY IN 5% NaOH: SOLUBLE _____ INSOLUBLE

GAS EVOLVED: YES NO

pH OF EVOLVED GAS _____

CYANIDE TEST: POS NEG _____

NH4 OR AMINE TEST: POS NEG

SOLUBILITY IN NaHCO3: SOLUBLE _____ INSOLUBLE

GAS EVOLVED: YES NO

IGNITABILITY TESTING

MELTS: YES NO

DETONATES: YES NO

IGNITES: YES NO

SUPPORTS FLAME: YES NO

ASH: YES NO

CARBON RESIDUE: YES NO

COLOR OF FLAME: yellow pH OF COMBUSTION GASES: 7

EVAPORATES BEFORE IGNITING: YES NO

HALOGEN FLAME TEST

GREEN FLAME: POSITIVE _____ NEGATIVE

PEROXIDE TESTING

ORGANIC PEROXIDES: POSITIVE _____ NEGATIVE

PCB TESTING

CHLOR-N-OIL PCB SCREEN: POSITIVE _____ NEGATIVE

PERCHLORIC NITRIC ACID TEST

NITRATES or CHLORATES: POSITIVE _____ NEGATIVE

NOTES: sludge Hydrocarbon

ACCUA ANALYTICAL LABORATORY, INC.

DATA SHEET FOR COMPATIBILITY TEST

LABORATORY ID # 1289

SAMPLE STATION# 55

PHYSICAL OBSERVATION:

PHYSICAL STATE: SOLID _____ LIQUID _____ SLUDGE _____

VISCOSITY: FLUID _____ OILY _____ VISCOSUS _____

COLOR: tan CLARITY: CLEAR _____ OPAQUE _____

SAMPLE pH: 7 VOLATILITY IN PPM: HNU _____ OVA _____

SOLUBILITY TESTING

SOLUBLE IN WATER: pH OF SOLUTION: 7.6

HEAT EVOLVED: YES NO

GAS EVOLVED: YES NO

INSLUBLE IN WATER: LIGHTER THAN WATER:

HEAVIER THAN WATER:

SOLUBILITY IN METHYLENE CHLORIDE: SOL INSOL

SOLUBILITY IN 5% HCL: SOLUBLE ✓ INSOLUBLE

GAS EVOLVED: YES NO ✓

pH OF EVOLVED GAS

SULFIDE TEST OF EVOLVED GAS: POS NEG ✓

OXIDIZER TEST: POS NEG ✓

(55)

SOLUBILITY IN 5% NaOH: SOLUBLE INSOLUBLE _____GAS EVOLVED: YES NO

pH OF EVOLVED GAS _____

CYANIDE TEST: POS NEG NH4 OR AMINE TEST: POS NEG SOLUBILITY IN NaHCO3: SOLUBLE INSOLUBLE _____GAS EVOLVED: YES NO

INGNITABILITY TESTING

MELTS: YES NO DETONATES: YES NO IGNITES: YES NO SUPPORTS FLAME: YES NO ASH: YES NO CARBON RESIDUE: YES NO

COLOR OF FLAME: _____ pH OF COMBUSTION GASES: _____

EVAPORATES BEFORE IGNITING: YES NO

HALOGEN FLAME TEST

GREEN FLAME: POSITIVE NEGATIVE

PEROXIDE TESTING

ORGANIC PEROXIDES: POSITIVE NEGATIVE

PCB TESTING

CHLOR-N-OIL PCB SCREEN: POSITIVE NEGATIVE

PERCHLORIC NITRIC ACID TEST

NITRATES or CHLORATES: POSITIVE NEGATIVE NOTES: neutral Inorganic liquid

ACCUA ANALYTICAL LABORATORY, INC.

DATA SHEET FOR COMPATIBILITY TEST

LABORATORY ID # 1290

SAMPLE STATION# 56

PHYSICAL OBSERVATION:

PHYSICAL STATE: SOLID LIQUID SLUDGE

VISCOSITY: FLUID OILY VISCOSUS

COLOR: CLARITY: CLEAR OPAQUE

SAMPLE pH: 6 VOLATILITY IN PPM: HNU OVA

SOLUBILITY TESTING

SOLUBLE IN WATER: pH OF SOLUTION: 6

HEAT EVOLVED: YES NO

GAS EVOLVED: YES NO

INSOLUBLE IN WATER: LIGHTER THAN WATER:

HEAVIER THAN WATER:

SOLUBILITY IN METHYLENE CHLORIDE: SOL INSOL

SOLUBILITY IN 5% HCL: SOLUBLE INSOLUBLE

GAS EVOLVED: YES NO

pH OF EVOLVED GAS

SULFIDE TEST OF EVOLVED GAS: POS NEG

OXIDIZER TEST: POS NEG

SOLUBILITY IN 5% NaOH: SOLUBLE INSOLUBLE

GAS EVOLVED: YES NO

pH OF EVOLVED GAS _____

CYANIDE TEST: POS NEG

NH4 OR AMINE TEST: POS NEG

SOLUBILITY IN NaHCO3: SOLUBLE INSOLUBLE

GAS EVOLVED: YES NO

INGNITABILITY TESTING

MELTS: YES NO DETONATES: YES NO

IGNITES: YES NO SUPPORTS FLAME: YES NO

ASH: YES NO CARBON RESIDUE: YES NO

COLOR OF FLAME: pH OF COMBUSTION GASES:

EVAPORATES BEFORE IGNITING: YES NO

HALOGEN FLAME TEST

GREEN FLAME: POSITIVE NEGATIVE

PEROXIDE TESTING

ORGANIC PEROXIDES: POSITIVE NEGATIVE

PCB TESTING

CHLOR-N-OIL PCB SCREEN: POSITIVE NEGATIVE

PERCHLORIC NITRIC ACID TEST

NITRATES or CHLORATES: POSITIVE NEGATIVE

NOTES: neutral organic liquid

ACCURA ANALYTICAL LABORATORY, INC.

DATA SHEET FOR COMPATIBILITY TEST

LABORATORY ID # 1291

SAMPLE STATION# 27

=====

PHYSICAL OBSERVATION:

PHYSICAL STATE: SOLID LIQUID SLUDGE

VISCOSITY: FLUID OILY VISCOSU

COLOR: CLARITY: CLEAR ✓ OPAQUE

SAMPLE pH: 2 VOLATILITY IN PPM: HNU OVA

SOLUBILITY TESTING

SOLUBLE IN WATER: pH OF SOLUTION: ✓

HEAT EVOLVED: YES NO ✓

GAS EVOLVED: YES NO

INSLUBLE IN WATER: LIGHTER THAN WATER:

HEAVIER THAN WATER:

SOLUBILITY IN METHYLENE CHLORIDE: SOL INSOL ✓

SOLUBILITY IN 5% HCL: SOLUBLE ✓ INSOLUBLE

GAS EVOLVED: YES NO ✓

pH OF EVOLVED GAS

SULFIDE TEST OF EVOLVED GAS: POS NEG ✓

OXIDIZER TEST: POS NEG ✓

SOLUBILITY IN 5% NaOH: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES NO

pH OF EVOLVED GAS _____

CYANIDE TEST: POS NEG

NH4 OR AMINE TEST: POS NEG

SOLUBILITY IN NaHCO3: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES NO

INGNITABILITY TESTING

MELTS: YES NO DETONATES: YES NO

IGNITES: YES NO SUPPORTS FLAME: YES NO

ASH: YES NO CARBON RESIDUE: YES NO

COLOR OF FLAME: _____ pH OF COMBUSTION GASES: _____

EVAPORATES BEFORE IGNITING: YES NO

HALOGEN FLAME TEST

GREEN FLAME: POSITIVE NEGATIVE

PEROXIDE TESTING

ORGANIC PEROXIDES: POSITIVE NEGATIVE

PCB TESTING

CHLOR-N-OIL PCB SCREEN: POSITIVE NEGATIVE

PERCHLORIC NITRIC ACID TEST

NITRATES or CHLORATES: POSITIVE NEGATIVE

NOTES: Hazardous inorganic liquid

ACCUA ANALYTICAL LABORATORY, INC.

DATA SHEET FOR COMPATIBILITY TEST

LABORATORY ID # 1292

SAMPLE STATION# 58

PHYSICAL OBSERVATION:

PHYSICAL STATE: SOLID LIQUID SLUDGE

VISCOSITY: FLUID OILY VISCOSUS

COLOR: clear CLARITY: CLEAR OPAQUE

SAMPLE pH: 7 VOLATILITY IN PPM: HNU OVA

SOLUBILITY TESTING

SOLUBLE IN WATER: pH OF SOLUTION: 7

HEAT EVOLVED: YES NO

GAS EVOLVED: YES NO

INSLUBLE IN WATER: LIGHTER THAN WATER:

HEAVIER THAN WATER:

SOLUBILITY IN METHYLENE CHLORIDE: SOL INSOL

SOLUBILITY IN 5% HCL: SOLUBLE INSOLUBLE

GAS EVOLVED: YES NO

pH OF EVOLVED GAS

SULFIDE TEST OF EVOLVED GAS: POS NEG

OXIDIZER TEST: POS NEG

SOLUBILITY IN 5% NaOH: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES ____ NO

pH OF EVOLVED GAS _____

CYANIDE TEST: POS ____ NEG _____

NH4 OR AMINE TEST: POS ____ NEG

SOLUBILITY IN NaHCO3: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES ____ NO

IGNITABILITY TESTING

MELTS: YES ____ NO ____ DETONATES: YES ____ NO _____

IGNITES: YES NO ____ SUPPORTS FLAME: YES ____ NO _____

ASH: YES ____ NO CARBON RESIDUE: YES ____ NO _____

COLOR OF FLAME: _____ pH OF COMBUSTION GASES: _____

EVAPORATES BEFORE IGNITING: YES ____ NO

HALOGEN FLAME TEST

GREEN FLAME: POSITIVE _____ NEGATIVE

PEROXIDE TESTING

ORGANIC PEROXIDES: POSITIVE _____ NEGATIVE

PCB TESTING

CHLOR-N-OIL PCB SCREEN: POSITIVE _____ NEGATIVE

PERCHLORIC NITRIC ACID TEST

NITRATES or CHLORATES: POSITIVE NEGATIVE _____

NOTES: (check to indicate element) negative

Base Inorganic ligand

ACCUA ANALYTICAL LABORATORY, INC.

DATA SHEET FOR COMPATIBILITY TEST

LABORATORY ID # 1293

SAMPLE STATION# 59

PHYSICAL OBSERVATION:

PHYSICAL STATE: SOLID LIQUID ✓ SLUDGE

VISCOSITY: FLUID OILY VISCOSU

COLOR: CLARITY: CLEAR OPAQUE

SAMPLE pH: 7 VOLATILITY IN PPM: HNU OVA

SOLUBILITY TESTING

SOLUBLE IN WATER: pH OF SOLUTION:

HEAT EVOLVED: YES NO

GAS EVOLVED: YES NO

INSLUBLE IN WATER: LIGHTER THAN WATER: ✓

HEAVIER THAN WATER:

SOLUBILITY IN METHYLENE CHLORIDE: SOL ✓ INSOL

SOLUBILITY IN 5% HCL: SOLUBLE INSOLUBLE ✓

GAS EVOLVED: YES NO ✓

pH OF EVOLVED GAS

SULFIDE TEST OF EVOLVED GAS: POS NEG ✓

OXIDIZER TEST: POS NEG ✓

SOLUBILITY IN 5% NaOH: SOLUBLE _____ INSOLUBLE

GAS EVOLVED: YES NO

pH OF EVOLVED GAS _____

CYANIDE TEST: POS NEG _____

NH4 OR AMINE TEST: POS NEG

SOLUBILITY IN NaHCO3: SOLUBLE _____ INSOLUBLE

GAS EVOLVED: YES NO

INGNITABILITY TESTING

MELTS: YES NO DETONATES: YES NO

IGNITES: YES NO SUPPORTS FLAME: YES NO

ASH: YES NO CARBON RESIDUE: YES NO

COLOR OF FLAME: -/-/ pH OF COMBUSTION GASES: -/-

EVAPORATES BEFORE IGNITING: YES NO

HALOGEN FLAME TEST

GREEN FLAME: POSITIVE _____ NEGATIVE _____

PEROXIDE TESTING

ORGANIC PEROXIDES: POSITIVE _____ NEGATIVE

PCB TESTING

CHLOR-N-OIL PCB SCREEN: POSITIVE _____ NEGATIVE

PERCHLORIC NITRIC ACID TEST

NITRATES or CHLORATES: POSITIVE _____ NEGATIVE

NOTES: Liquid Hydrocarbon

ACCUURA ANALYTICAL LABORATORY, INC.
 ***** DATA SHEET FOR COMPATIBILITY TEST *****

LABORATORY ID # 1294 SAMPLE STATE # 60

PHYSICAL OBSERVATION:

PHYSICAL STATE: SOLID LIQUID SLUDGE
 VISCOSITY: FLUID OILY VISCOUS
 COLOR: CLEAR OPAQUE
 SAMPLE PH: 0 VOLATILITY IN PPM: HNU OVA

SOLUBILITY TESTING

SOLUBLE IN WATER: pH OF SOLUTION:
 HEAT EVOLVED: YES NO
 GAS EVOLVED: YES NO
 INSOLUBLE IN WATER: LIGHTER THAN WATER:
 HEAVIER THAN WATER:
 SOLUBILITY IN METHYLENE CHLORIDE: SOL INSO
 SOLUBILITY IN 5% HCL: SOLUBLE INSOULBLE
 GAS EVOLVED: YES NO
 HEAT EVOLVED: YES NO
 SOLUBLE IN WATER: pH OF SOLUTION: ✓

SULFIDE TEST OF EVOLVED GAS: POS NEG
 PH OF EVOLVED GAS
 GAS EVOLVED: YES NO ✓

OXIDIZER TEST: POS NEG ✓

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1294

SOLUBILITY IN 5% NaOH: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES NO

pH OF EVOLVED GAS _____

CYANIDE TEST: POS NEG _____

NH4 OR AMINE TEST: POS NEG

SOLUBILITY IN NaHCO3: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES ~~Barbital~~ NO _____

INGNITABILITY TESTING

MELTS: YES NO

DETONATES: YES NO

IGNITES: YES NO

SUPPORTS FLAME: YES NO

ASH: YES NO

CARBON RESIDUE: YES NO

COLOR OF FLAME: _____ pH OF COMBUSTION GASES: _____

EVAPORATES BEFORE IGNITING: YES NO

HALOGEN FLAME TEST

GREEN FLAME: POSITIVE NEGATIVE

PEROXIDE TESTING

ORGANIC PEROXIDES: POSITIVE NEGATIVE

PCB TESTING

CHLOR-N-OIL PCB SCREEN: POSITIVE NEGATIVE

PERCHLORIC NITRIC ACID TEST

NITRATES or CHLORATES: POSITIVE NEGATIVE

NOTES: Harmful Inorganic liquid

SOLUBILITY IN 5% NaOH: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES NO

pH OF EVOLVED GAS _____

CYANIDE TEST: POS NEG

NH₄ OR AMINE TEST: POS NEG

SOLUBILITY IN NaHCO₃: SOLUBLE *Partly* INSOLUBLE _____

GAS EVOLVED: YES NO

IGNITABILITY TESTING

MELTS: YES NO DETONATES: YES NO

IGNITES: YES NO SUPPORTS FLAME: YES NO

ASH: YES NO CARBON RESIDUE: YES NO

COLOR OF FLAME: *Yellow* pH OF COMBUSTION GASES: *?*

EVAPORATES BEFORE IGNITING: YES NO

HALOGEN FLAME TEST

GREEN FLAME: POSITIVE _____ NEGATIVE

PEROXIDE TESTING

ORGANIC PEROXIDES: POSITIVE _____ NEGATIVE

PCB TESTING

CHLOR-N-OIL PCB SCREEN: POSITIVE _____ NEGATIVE

PERCHLORIC NITRIC ACID TEST

NITRATES or CHLORATES: POSITIVE _____ NEGATIVE

NOTES: *Neutral organic liquid*

ACCURA ANALYTICAL LABORATORY, INC.

DATA SHEET FOR COMPATIBILITY TEST

LABORATORY ID # 1297

SAMPLE STATION# 63

PHYSICAL OBSERVATION:

PHYSICAL STATE: SOLID _____ LIQUID SLUDGE _____

VISCOSITY: FLUID OILY _____ VISCOSUS _____

COLOR: light brown CLARITY: CLEAR OPAQUE _____

SAMPLE pH: 8 VOLATILITY IN PPM: HNU _____ OVA _____

SOLUBILITY TESTING

SOLUBLE IN WATER: pH OF SOLUTION: pH 7

HEAT EVOLVED: YES NO

GAS EVOLVED: YES NO

INSLUBLE IN WATER: LIGHTER THAN WATER: _____

HEAVIER THAN WATER: _____

SOLUBILITY IN METHYLENE CHLORIDE: SOL INSOL

SOLUBILITY IN 5% HCL: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES NO

pH OF EVOLVED GAS: _____

SULFIDE TEST OF EVOLVED GAS: POS NEG

OXIDIZER TEST: POS NEG

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SOLUBILITY IN 5% NaOH: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES NO

pH OF EVOLVED GAS _____

CYANIDE TEST: POS NEG

NH₄ OR AMINE TEST: POS NEG

SOLUBILITY IN NaHCO₃: SOLUBLE 1a-1b INSOLUBLE _____

GAS EVOLVED: YES NO

INGNITABILITY TESTING

MELTS: YES NO DETONATES: YES NO

IGNITES: YES NO SUPPORTS FLAME: YES NO

ASH: YES NO CARBON RESIDUE: YES NO

COLOR OF FLAME: _____ pH OF COMBUSTION GASES: _____

EVAPORATES BEFORE IGNITING: YES NO

HALOGEN FLAME TEST

GREEN FLAME: POSITIVE _____ NEGATIVE

PEROXIDE TESTING

ORGANIC PEROXIDES: POSITIVE _____ NEGATIVE

PCB TESTING

CHLOR-N-OIL PCB SCREEN: POSITIVE _____ NEGATIVE

PERCHLORIC NITRIC ACID TEST

NITRATES or CHLORATES: POSITIVE _____ NEGATIVE

NOTES: Neutral Inorganic liquid

DATA SHEET FOR COMPATIBILITY TEST

ACCURA ANALYTICAL LABORATORY, INC.

LABORATORY ID # 1298

SAMPLE STATION# 64

PHYSICAL OBSERVATION:

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PHYSICAL STATE: SOLID LIQUID SLUDGE
 VISCOSITY: FLUID OILY VISCOUS
 COLOR: W.H. Amber CLARITY: CLEAR OPAQUE
 SAMPLE PH: 7 VOLATILITY IN ppm: HNU OVA

SOLUBILITY TESTING

SOLUBLE IN WATER: pH OR SOLUTION: 7

HEAT EVOLVED: YES NO

HEAVIER THAN WATER: _____

INSOLUBLE IN WATER: LIGHTER THAN WATER: ✓

GAS EVOLVED: YES NO

SOLUBILITY IN METHYLENE CHLORIDE: SOL ✓ INSOL

SOLUBILITY IN 5% HCl: SOLUBLE ✓ INSOLUBLE

GAS EVOLVED: YES NO

pH OF EVOLVED GAS _____

SULFIDE TEST OF EVOLVED GAS: POS NEG

OXIDIZER TEST: POS NEG

SOLUBILITY IN 5% NaOH: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES ____ NO

pH OF EVOLVED GAS _____

CYANIDE TEST: POS ____ NEG

NH₄ OR AMINE TEST: POS ____ NEG

SOLUBILITY IN NaHCO₃: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES ____ NO

IGNITABILITY TESTING

MELTS: YES ____ NO DETONATES: YES ____ NO

IGNITES: YES NO ____ SUPPORTS FLAME: YES ____ NO

ASH: YES NO ____ CARBON RESIDUE: YES NO ____

COLOR OF FLAME: _____ pH OF COMBUSTION GASES: _____

EVAPORATES BEFORE IGNITING: YES ____ NO

HALOGEN FLAME TEST

GREEN FLAME: POSITIVE ____ NEGATIVE

PEROXIDE TESTING

ORGANIC PEROXIDES: POSITIVE ____ NEGATIVE

PCB TESTING

CHLOR-N-OIL PCB SCREEN: POSITIVE ____ NEGATIVE

PERCHLORIC NITRIC ACID TEST

NITRATES or CHLORATES: POSITIVE ____ NEGATIVE

NOTES: Neutral organic liquid

DATA SHEET FOR COMPATIBILITY TEST

ACCURA ANALYTICAL LABORATORY, INC.

DATA SHEET FOR COMPATIBILITY TEST

ACCURA ANALYTICAL LABORATORY, INC.

SAMPLE STATE: SOLID LIQUID SLUDGE
 PHYSICAL OBSERVATION:
 VISCOSITY: FLUID OILY VISCOUS
 COLOR: CLEAR OPACUE
 SAMPLE PH: VOLATILITY IN PPM: HNU ~~600~~ OVA
 SOLUBILITY TESTING
 SOLUBLE IN WATER: pH OF SOLUTION: 6.1H
 HEAT EVOLVED: YES NO
 GAS EVOLVED: YES NO
 INSOLUBLE IN WATER: LIGHTER THAN WATER:
 HEAVIER THAN WATER:
 SOLUBILITY IN METHYLIC CHLORIDE: SOL INSOL
 SOLUBILITY IN 5% HCl: SOLUBLE INSOLUBLE
 GAS EVOLVED: YES NO
 PH OF EVOLVED GAS:
 SULFIDE TEST OF EVOLVED GAS: POS NEG
 OXIDIZER TEST: POS NEG

LABORATORY ID #: 1299
 SAMPLE STATION#: 65
 ****=
 PHYSICAL OBSERVATION:
 VISCOSITY: FLUID OILY VISCOUS
 COLOR: CLEAR OPACUE
 SAMPLE PH: VOLATILITY IN PPM: HNU ~~600~~ OVA
 SOLUBILITY TESTING
 SOLUBLE IN WATER: pH OF SOLUTION: 6.1H
 HEAT EVOLVED: YES NO
 GAS EVOLVED: YES NO
 PH OF EVOLVED GAS:
 SULFIDE TEST OF EVOLVED GAS: POS NEG
 OXIDIZER TEST: POS NEG

SOLUBILITY IN 5% NaOH: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES ____ NO

pH OF EVOLVED GAS _____

CYANIDE TEST: POS ____ NEG

NH4 OR AMINE TEST: POS ____ NEG

SOLUBILITY IN NaHCO3: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES ____ NO

INGNITABILITY TESTING

MELTS: YES ____ NO DETONATES: YES ____ NO

IGNITES: YES ____ NO SUPPORTS FLAME: YES NO ____

ASH: YES ____ NO CARBON RESIDUE: YES ____ NO

COLOR OF FLAME: yellow pH OF COMBUSTION GASES: _____

EVAPORATES BEFORE IGNITING: YES ____ NO ____

HALOGEN FLAME TEST

GREEN FLAME: POSITIVE _____ NEGATIVE

PEROXIDE TESTING

ORGANIC PEROXIDES: POSITIVE _____ NEGATIVE

PCB TESTING

CHLOR-N-OIL PCB SCREEN: POSITIVE _____ NEGATIVE

PERCHLORIC NITRIC ACID TEST

NITRATES or CHLORATES: POSITIVE _____ NEGATIVE

NOTES: liquid neutral organic

ACCUA ANALYTICAL LABORATORY, INC.

DATA SHEET FOR COMPATIBILITY TEST

LABORATORY ID # 1300

SAMPLE STATION# 66

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PHYSICAL OBSERVATION:

PHYSICAL STATE: SOLID LIQUID SLUDGE ✓

VISCOSITY: FLUID OILY VISCOSU✓

COLOR: black CLARITY: CLEAR OPAQUE ✓

SAMPLE pH: - VOLATILITY IN PPM: HNU OVA

SOLUBILITY TESTING

SOLUBLE IN WATER: pH OF SOLUTION:

HEAT EVOLVED: YES NO

GAS EVOLVED: YES NO

INSLUBLE IN WATER: LIGHTER THAN WATER: ✓

HEAVIER THAN WATER:

SOLUBILITY IN METHYLENE CHLORIDE: SOL ✓ INSOL

SOLUBILITY IN 5% HCL: SOLUBLE INSOLUBLE ✓

GAS EVOLVED: YES NO ✓

pH OF EVOLVED GAS

SULFIDE TEST OF EVOLVED GAS: POS NEG ✓

OXIDIZER TEST: POS NEG ✓

SOLUBILITY IN 5% NaOH: SOLUBLE _____ INSOLUBLE

GAS EVOLVED: YES NO _____

pH OF EVOLVED GAS _____

CYANIDE TEST: POS NEG

NH₄ OR AMINE TEST: POS NEG

SOLUBILITY IN NaHCO₃: SOLUBLE _____ INSOLUBLE

GAS EVOLVED: YES NO

INGNITABILITY TESTING

MELTS: YES NO DETONATES: YES NO

IGNITES: YES NO SUPPORTS FLAME: YES NO

ASH: YES NO CARBON RESIDUE: YES NO

COLOR OF FLAME: yellow pH OF COMBUSTION GASES: 7

EVAPORATES BEFORE IGNITING: YES NO

HALOGEN FLAME TEST

GREEN FLAME: POSITIVE _____ NEGATIVE

PEROXIDE TESTING

ORGANIC PEROXIDES: POSITIVE _____ NEGATIVE

PCB TESTING

CHLOR-N-OIL PCB SCREEN: POSITIVE _____ NEGATIVE

PERCHLORIC NITRIC ACID TEST

NITRATES or CHLORATES: POSITIVE _____ NEGATIVE

NOTES: sludge Hydrocarbon

ACCUA ANALYTICAL LABORATORY, INC.

DATA SHEET FOR COMPATIBILITY TEST

LABORATORY ID # 1301

SAMPLE STATION# 67

PHYSICAL OBSERVATION:

PHYSICAL STATE: SOLID _____ LIQUID SLUDGE _____

VISCOSITY: FLUID OILY _____ VISCOSUS _____

COLOR: Pale Brown CLARITY: CLEAR OPAQUE _____

SAMPLE pH: 7 VOLATILITY IN PPM: HNU _____ OVA _____

SOLUBILITY TESTING

SOLUBLE IN WATER: pH OF SOLUTION: 7

HEAT EVOLVED: YES NO

GAS EVOLVED: YES NO

INSLUBLE IN WATER: LIGHTER THAN WATER: _____

HEAVIER THAN WATER: _____

SOLUBILITY IN METHYLENE CHLORIDE: SOL INSOL

SOLUBILITY IN 5% HCL: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES NO

pH OF EVOLVED GAS —

SULFIDE TEST OF EVOLVED GAS: POS NEG

OXIDIZER TEST: POS NEG

SOLUBILITY IN 5% NaOH: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES NO

pH OF EVOLVED GAS _____

CYANIDE TEST: POS NEG

NH₄ OR AMINE TEST: POS NEG

SOLUBILITY IN NaHCO₃: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES NO

INGNITABILITY TESTING

MELTS: YES NO DETONATES: YES NO

IGNITES: YES NO SUPPORTS FLAME: YES NO

ASH: YES NO CARBON RESIDUE: YES NO

COLOR OF FLAME: _____ pH OF COMBUSTION GASES: _____

EVAPORATES BEFORE IGNITING: YES NO

HALOGEN FLAME TEST

GREEN FLAME: POSITIVE NEGATIVE

PEROXIDE TESTING

ORGANIC PEROXIDES: POSITIVE NEGATIVE

PCB TESTING

CHLOR-N-OIL PCB SCREEN: POSITIVE NEGATIVE

PERCHLORIC NITRIC ACID TEST

NITRATES or CHLORATES: POSITIVE NEGATIVE

NOTES: Neutral Inorganic liquid

ACCUA ANALYTICAL LABORATORY, INC.

DATA SHEET FOR COMPATIBILITY TEST

LABORATORY ID # 1302

SAMPLE STATION# 68

=====

PHYSICAL OBSERVATION:

PHYSICAL STATE: SOLID LIQUID ✓ SLUDGE

VISCOSITY: FLUID ✓ OILY VISCOSU

COLOR: purple CLARITY: CLEAR OPAQUE ✓

SAMPLE pH: 2 VOLATILITY IN PPM: HNU OVA

SOLUBILITY TESTING

SOLUBLE IN WATER: pH OF SOLUTION: 2 ✓

HEAT EVOLVED: YES NO ✓

GAS EVOLVED: YES NO ✓

INSOLUBLE IN WATER: LIGHTER THAN WATER:

HEAVIER THAN WATER:

SOLUBILITY IN METHYLENE CHLORIDE: SOL INSOL ✓

SOLUBILITY IN 5% HCL: SOLUBLE ✓ INSOLUBLE

GAS EVOLVED: YES NO ✓

pH OF EVOLVED GAS

SULFIDE TEST OF EVOLVED GAS: POS NEG ✓

OXIDIZER TEST: POS NEG ✓

SOLUBILITY IN 5% NaOH: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES NO

pH OF EVOLVED GAS _____

CYANIDE TEST: POS NEG

NH₄ OR AMINE TEST: POS NEG

SOLUBILITY IN NaHCO₃: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES ^{bubbles room} NO _____

IGNITABILITY TESTING

MELTS: YES NO DETONATES: YES NO

IGNITES: YES NO SUPPORTS FLAME: YES NO

ASH: YES NO CARBON RESIDUE: YES NO

COLOR OF FLAME: _____ pH OF COMBUSTION GASES: _____

EVAPORATES BEFORE IGNITING: YES NO _____

HALOGEN FLAME TEST

GREEN FLAME: POSITIVE _____ NEGATIVE

PEROXIDE TESTING

ORGANIC PEROXIDES: POSITIVE _____ NEGATIVE

PCB TESTING

CHLOR-N-OIL PCB SCREEN: POSITIVE _____ NEGATIVE

PERCHLORIC NITRIC ACID TEST

NITRATES or CHLORATES: POSITIVE ^{Ternate} NEGATIVE ^{Ferric}

NOTES: Hadic Inorganic liquid

ACCUA ANALYTICAL LABORATORY, INC.

DATA SHEET FOR COMPATIBILITY TEST

LABORATORY ID # 1303

SAMPLE STATION# 69

PHYSICAL OBSERVATION:

PHYSICAL STATE: SOLID LIQUID ✓ SLUDGE

VISCOSITY: FLUID ✓ OILY VISCOSUS

COLOR: white CLARITY: CLEAR OPAQUE ✓

SAMPLE pH: 7 VOLATILITY IN PPM: HNU OVA

SOLUBILITY TESTING

SOLUBLE IN WATER: pH OF SOLUTION: ✓ 7

HEAT EVOLVED: YES NO ✓

GAS EVOLVED: YES NO ✓

INSOLUBLE IN WATER: LIGHTER THAN WATER:

HEAVIER THAN WATER:

SOLUBILITY IN METHYLENE CHLORIDE: SOL INSOL ✓

SOLUBILITY IN 5% HCL: SOLUBLE INSOLUBLE ✓

GAS EVOLVED: YES NO

pH OF EVOLVED GAS

SULFIDE TEST OF EVOLVED GAS: POS NEG ✓

OXIDIZER TEST: POS NEG ✓

SOLUBILITY IN 5% NaOH: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES NO _____

pH OF EVOLVED GAS _____

CYANIDE TEST: POS NEG

NH₄ OR AMINE TEST: POS NEG

SOLUBILITY IN NaHCO₃: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES NO

INGNITABILITY TESTING

MELTS: YES NO

DETONATES: YES NO

IGNITES: YES NO

SUPPORTS FLAME: YES NO

ASH: YES NO

CARBON RESIDUE: YES NO

COLOR OF FLAME: _____ pH OF COMBUSTION GASES: _____

EVAPORATES BEFORE IGNITING: YES NO _____

HALOGEN FLAME TEST

GREEN FLAME: POSITIVE NEGATIVE

PEROXIDE TESTING

ORGANIC PEROXIDES: POSITIVE NEGATIVE

PCB TESTING

CHLOR-N-OIL PCB SCREEN: POSITIVE NEGATIVE

PERCHLORIC NITRIC ACID TEST

NITRATES or CHLORATES: POSITIVE NEGATIVE

NOTES: Neutral Inorganic liquid

ACURA ANALYTICAL LABORATORY, INC.

DATA SHEET FOR COMPATIBILITY TEST

LABORATORY ID # 1304

SAMPLE STATION# 70

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PHYSICAL OBSERVATION:

PHYSICAL STATE: SOLID _____ LIQUID SLUDGE _____

VISCOSITY: FLUID OILY _____ VISCous _____

COLOR: Brownish CLARITY: CLEAR OPAQUE _____

SAMPLE pH: 7 VOLATILITY IN PPM: HNU _____ OVA _____

SOLUBILITY TESTING

SOLUBLE IN WATER: pH OF SOLUTION: 7

HEAT EVOLVED: YES _____ NO

GAS EVOLVED: YES _____ NO

INSLUBLE IN WATER: LIGHTER THAN WATER: _____

HEAVIER THAN WATER: _____

SOLUBILITY IN METHYLENE CHLORIDE: SOL _____ INSOL

SOLUBILITY IN 5% HCL: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES _____ NO

pH OF EVOLVED GAS _____

SULFIDE TEST OF EVOLVED GAS: POS _____ NEG

OXIDIZER TEST: POS _____ NEG

SOLUBILITY IN 5% NaOH: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES NO

pH OF EVOLVED GAS _____

CYANIDE TEST: POS NEG

NH₄ OR AMINE TEST: POS NEG

SOLUBILITY IN NaHCO₃: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES NO

INGNITABILITY TESTING

MELTS: YES NO DETONATES: YES NO

IGNITES: YES NO SUPPORTS FLAME: YES NO

ASH: YES NO CARBON RESIDUE: YES NO

COLOR OF FLAME: _____ pH OF COMBUSTION GASES: _____

EVAPORATES BEFORE IGNITING: YES NO

HALOGEN FLAME TEST

GREEN FLAME: POSITIVE _____ NEGATIVE

PEROXIDE TESTING

ORGANIC PEROXIDES: POSITIVE _____ NEGATIVE

PCB TESTING

CHLOR-N-OIL PCB SCREEN: POSITIVE _____ NEGATIVE

PERCHLORIC NITRIC ACID TEST

NITRATES or CHLORATES: POSITIVE _____ NEGATIVE

NOTES: Neutral Inorganic liquid

ACCURA ANALYTICAL LABORATORY, INC.

DATA SHEET FOR COMPATIBILITY TEST

LABORATORY ID # 1305-

SAMPLE STATION# 71

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PHYSICAL OBSERVATION:

PHYSICAL STATE: SOLID _____ LIQUID SLUDGE _____

VISCOSITY: FLUID OILY _____ VISCOSUS _____

COLOR: brown CLARITY: CLEAR _____ OPAQUE

SAMPLE pH: 7 VOLATILITY IN PPM: HNU _____ OVA _____

SOLUBILITY TESTING

SOLUBLE IN WATER: pH OF SOLUTION: 7

HEAT EVOLVED: YES _____ NO _____

GAS EVOLVED: YES _____ NO _____

INSLUBLE IN WATER: LIGHTER THAN WATER: _____

HEAVIER THAN WATER: _____

SOLUBILITY IN METHYLENE CHLORIDE: SOL _____ INSOL

SOLUBILITY IN 5% HCL: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES _____ NO

pH OF EVOLVED GAS _____

SULFIDE TEST OF EVOLVED GAS: POS _____ NEG

OXIDIZER TEST: POS _____ NEG

SOLUBILITY IN 5% NaOH: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES NO

pH OF EVOLVED GAS _____

CYANIDE TEST: POS NEG

NH₄ OR AMINE TEST: POS NEG

SOLUBILITY IN NaHCO₃: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES NO

IGNITABILITY TESTING

MELTS: YES NO

DETONATES: YES NO

IGNITES: YES NO

SUPPORTS FLAME: YES NO

ASH: YES NO

CARBON RESIDUE: YES NO

COLOR OF FLAME: _____ pH OF COMBUSTION GASES: _____

EVAPORATES BEFORE IGNITING: YES NO _____

HALOGEN FLAME TEST

GREEN FLAME: POSITIVE NEGATIVE

PEROXIDE TESTING

ORGANIC PEROXIDES: POSITIVE NEGATIVE

PCB TESTING

CHLOR-N-OIL PCB SCREEN: POSITIVE NEGATIVE

PERCHLORIC NITRIC ACID TEST

NITRATES or CHLORATES: POSITIVE NEGATIVE

NOTES: Neutral Inorganic liquid

ACCUA ANALYTICAL LABORATORY, INC.

DATA SHEET FOR COMPATIBILITY TEST

LABORATORY ID # 1306

SAMPLE STATION# 72

PHYSICAL OBSERVATION:

PHYSICAL STATE: SOLID _____ LIQUID SLUDGE _____

VISCOSITY: FLUID OILY _____ VISCOSUS _____

COLOR: Brown CLARITY: CLEAR _____ OPAQUE

SAMPLE pH: 3 VOLATILITY IN PPM: HNU _____ OVA _____

SOLUBILITY TESTING

SOLUBLE IN WATER: pH OF SOLUTION: 4

HEAT EVOLVED: YES _____ NO

GAS EVOLVED: YES _____ NO

INSLUBLE IN WATER: LIGHTER THAN WATER: _____

HEAVIER THAN WATER: _____

SOLUBILITY IN METHYLENE CHLORIDE: SOL _____ INSOL

SOLUBILITY IN 5% HCL: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES _____ NO

pH OF EVOLVED GAS 1

SULFIDE TEST OF EVOLVED GAS: POS _____ NEG

OXIDIZER TEST: POS _____ NEG

SOLUBILITY IN 5% NaOH: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES NO

pH OF EVOLVED GAS _____

CYANIDE TEST: POS NEG

NH4 OR AMINE TEST: POS NEG

SOLUBILITY IN NaHCO3: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES NO

IGNITABILITY TESTING

MELTS: YES NO

DETONATES: YES NO

IGNITES: YES NO

SUPPORTS FLAME: YES NO

ASH: YES NO

CARBON RESIDUE: YES NO

COLOR OF FLAME: _____ pH OF COMBUSTION GASES: _____

EVAPORATES BEFORE IGNITING: YES NO _____

HALOGEN FLAME TEST

GREEN FLAME: POSITIVE _____ NEGATIVE

PEROXIDE TESTING

ORGANIC PEROXIDES: POSITIVE _____ NEGATIVE

PCB TESTING

CHLOR-N-OIL PCB SCREEN: POSITIVE _____ NEGATIVE

PERCHLORIC NITRIC ACID TEST

NITRATES or CHLORATES: POSITIVE _____ NEGATIVE

NOTES: Acidic Inorganic liquid

ACCUA ANALYTICAL LABORATORY, INC.

DATA SHEET FOR COMPATIBILITY TEST

LABORATORY ID # 1307

SAMPLE STATION# 73

PHYSICAL OBSERVATION:

PHYSICAL STATE: SOLID _____ LIQUID SLUDGE _____

VISCOSITY: FLUID OILY _____ VISCOSUS _____

COLOR: Light Brown CLARITY: CLEAR OPAQUE _____

SAMPLE pH: 9 VOLATILITY IN PPM: HNU _____ OVA _____

SOLUBILITY TESTING

SOLUBLE IN WATER: pH OF SOLUTION: 7

HEAT EVOLVED: YES _____ NO

GAS EVOLVED: YES _____ NO

INSLUBLE IN WATER: LIGHTER THAN WATER: _____

HEAVIER THAN WATER: _____

SOLUBILITY IN METHYLENE CHLORIDE: SOL _____ INSOL

SOLUBILITY IN 5% HCL: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES _____ NO

pH OF EVOLVED GAS _____

SULFIDE TEST OF EVOLVED GAS: POS _____ NEG

OXIDIZER TEST: POS _____ NEG

1307
73

SOLUBILITY IN 5% NaOH: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES NO

pH OF EVOLVED GAS _____

CYANIDE TEST: POS NEG

NH4 OR AMINE TEST: POS NEG

SOLUBILITY IN NaHCO3: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES NO _____

INGNITABILITY TESTING

MELTS: YES NO DETONATES: YES NO

IGNITES: YES NO SUPPORTS FLAME: YES NO

ASH: YES NO CARBON RESIDUE: YES NO

COLOR OF FLAME: _____ pH OF COMBUSTION GASES: _____

EVAPORATES BEFORE IGNITING: YES NO _____

HALOGEN FLAME TEST

GREEN FLAME: POSITIVE _____ NEGATIVE

PEROXIDE TESTING

ORGANIC PEROXIDES: POSITIVE _____ NEGATIVE

PCB TESTING

CHLOR-N-OIL PCB SCREEN: POSITIVE _____ NEGATIVE

PERCHLORIC NITRIC ACID TEST

NITRATES or CHLORATES: POSITIVE _____ NEGATIVE

NOTES: Base Inorganic liquid

ACCUA ANALYTICAL LABORATORY, INC.

DATA SHEET FOR COMPATIBILITY TEST

LABORATORY ID # 1308

SAMPLE STATION# 74

PHYSICAL OBSERVATION:

PHYSICAL STATE: SOLID LIQUID ✓ SLUDGE

VISCOSITY: FLUID ✓ OILY VISCOSU

COLOR: brown cloudy CLARITY: CLEAR ✓ OPAQUE

SAMPLE pH: 7 VOLATILITY IN PPM: HNU OVA

SOLUBILITY TESTING

SOLUBLE IN WATER: pH OF SOLUTION: 6

HEAT EVOLVED: YES NO ✓

GAS EVOLVED: YES NO ✓

INSLUBLE IN WATER: LIGHTER THAN WATER:

HEAVIER THAN WATER:

SOLUBILITY IN METHYLENE CHLORIDE: SOL INSOL ✓

SOLUBILITY IN 5% HCL: SOLUBLE ✓ INSOLUBLE

GAS EVOLVED: YES NO ✓

pH OF EVOLVED GAS

SULFIDE TEST OF EVOLVED GAS: POS NEG ✓

OXIDIZER TEST: POS NEG ✓

SOLUBILITY IN 5% NaOH: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES ____ NO

pH OF EVOLVED GAS _____

CYANIDE TEST: POS ____ NEG

NH4 OR AMINE TEST: POS ____ NEG

SOLUBILITY IN NaHCO3: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES ____ NO

INGNITABILITY TESTING

MELTS: YES ____ NO DETONATES: YES ____ NO

IGNITES: YES ____ NO SUPPORTS FLAME: YES ____ NO

ASH: YES ____ NO CARBON RESIDUE: YES ____ NO

COLOR OF FLAME: _____ pH OF COMBUSTION GASES: _____

EVAPORATES BEFORE IGNITING: YES ____ NO

HALOGEN FLAME TEST

GREEN FLAME: POSITIVE _____ NEGATIVE

PEROXIDE TESTING

ORGANIC PEROXIDES: POSITIVE _____ NEGATIVE

PCB TESTING

CHLOR-N-OIL PCB SCREEN: POSITIVE _____ NEGATIVE

PERCHLORIC NITRIC ACID TEST

NITRATES or CHLORATES: POSITIVE _____ NEGATIVE

NOTES: Neutral Inorganic liquid

ACCURA ANALYTICAL LABORATORY, INC.

DATA SHEET FOR COMPATIBILITY TEST

LABORATORY ID # 1309

SAMPLE STATION# 75

PHYSICAL OBSERVATION:

PHYSICAL STATE: SOLID LIQUID SLUDGE

VISCOSITY: FLUID OILY VISCOSUS

COLOR: grey CLARITY: CLEAR OPAQUE

SAMPLE pH: 5 VOLATILITY IN PPM: HNU OVA

SOLUBILITY TESTING

SOLUBLE IN WATER: partly soluble pH OF SOLUTION: 5

HEAT EVOLVED: YES NO

GAS EVOLVED: YES NO

INSOLUBLE IN WATER: LIGHTER THAN WATER:

HEAVIER THAN WATER:

SOLUBILITY IN METHYLENE CHLORIDE: SOL INSOL

SOLUBILITY IN 5% HCL: SOLUBLE INSOLUBLE

GAS EVOLVED: YES NO

pH OF EVOLVED GAS

SULFIDE TEST OF EVOLVED GAS: POS NEG

OXIDIZER TEST: POS NEG

SOLUBILITY IN 5% NaOH: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES ____ NO

pH OF EVOLVED GAS _____

CYANIDE TEST: POS ____ NEG

NH4 OR AMINE TEST: POS ____ NEG

SOLUBILITY IN NaHCO3: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES ____ NO

IGNITABILITY TESTING

MELTS: YES ____ NO DETONATES: YES ____ NO

IGNITES: YES ____ NO SUPPORTS FLAME: YES NO ____

ASH: YES ____ NO CARBON RESIDUE: YES NO ____

COLOR OF FLAME: yellow pH OF COMBUSTION GASES: _____

EVAPORATES BEFORE IGNITING: YES ____ NO

HALOGEN FLAME TEST

GREEN FLAME: POSITIVE _____ NEGATIVE

PEROXIDE TESTING

ORGANIC PEROXIDES: POSITIVE _____ NEGATIVE

PCB TESTING

CHLOR-N-OIL PCB SCREEN: POSITIVE _____ NEGATIVE

PERCHLORIC NITRIC ACID TEST

NITRATES or CHLORATES: POSITIVE _____ NEGATIVE

NOTES: had organic liquid

ACCUA ANALYTICAL LABORATORY, INC.

DATA SHEET FOR COMPATIBILITY TEST

LABORATORY ID # 1310

SAMPLE STATION# 76

PHYSICAL OBSERVATION:

PHYSICAL STATE: SOLID _____ LIQUID SLUDGE _____

VISCOSITY: FLUID OILY _____ VISCOSU _____

COLOR: tan CLARITY: CLEAR OPAQUE _____

SAMPLE pH: 1 VOLATILITY IN PPM: HNU _____ OVA _____

SOLUBILITY TESTING

SOLUBLE IN WATER: pH OF SOLUTION: 3.0

HEAT EVOLVED: YES _____ NO _____

GAS EVOLVED: YES _____ NO _____

INSOLUBLE IN WATER: LIGHTER THAN WATER: _____

HEAVIER THAN WATER: _____

SOLUBILITY IN METHYLENE CHLORIDE: SOL INSOL _____

SOLUBILITY IN 5% HCL: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES _____ NO _____

pH OF EVOLVED GAS _____

SULFIDE TEST OF EVOLVED GAS: POS _____ NEG

OXIDIZER TEST: POS _____ NEG

SOLUBILITY IN 5% NaOH: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES NO

pH OF EVOLVED GAS _____

CYANIDE TEST: POS NEG

NH₄ OR AMINE TEST: POS NEG

SOLUBILITY IN NaHCO₃: SOLUBLE _____ INSOLUBLE

GAS EVOLVED: YES *bubbling* NO _____

INGNITABILITY TESTING

MELTS: YES NO

DETONATES: YES NO

IGNITES: YES NO

SUPPORTS FLAME: YES NO

ASH: YES NO

CARBON RESIDUE: YES NO

COLOR OF FLAME: yellow pH OF COMBUSTION GASES: ?

EVAPORATES BEFORE IGNITING: YES NO

HALOGEN FLAME TEST

GREEN FLAME: POSITIVE NEGATIVE

PEROXIDE TESTING

ORGANIC PEROXIDES: POSITIVE NEGATIVE

PCB TESTING

CHLOR-N-OIL PCB SCREEN: POSITIVE NEGATIVE

PERCHLORIC NITRIC ACID TEST

NITRATES or CHLORATES: POSITIVE NEGATIVE

NOTES: Alkaline Inorganic liquid

ACCUA ANALYTICAL LABORATORY, INC.

DATA SHEET FOR COMPATIBILITY TEST

LABORATORY ID # 1311

SAMPLE STATION# 77

=====

PHYSICAL OBSERVATION:

PHYSICAL STATE: SOLID _____ LIQUID _____ SLUDGE

VISCOSITY: FLUID _____ OILY _____ VISCOSUS

COLOR: yellow CLARITY: CLEAR _____ OPAQUE

SAMPLE pH: _____ VOLATILITY IN PPM: HNU _____ OVA _____

SOLUBILITY TESTING

SOLUBLE IN WATER: pH OF SOLUTION: _____

HEAT EVOLVED: YES NO

GAS EVOLVED: YES NO

INSOLUBLE IN WATER: LIGHTER THAN WATER:

HEAVIER THAN WATER: _____

SOLUBILITY IN METHYLENE CHLORIDE: SOL INSOL

SOLUBILITY IN 5% HCL: SOLUBLE INSOLUBLE

GAS EVOLVED: YES NO

pH OF EVOLVED GAS _____

SULFIDE TEST OF EVOLVED GAS: POS NEG

OXIDIZER TEST: POS NEG

SOLUBILITY IN 5% NaOH: SOLUBLE _____ INSOLUBLE

GAS EVOLVED: YES _____ NO

pH OF EVOLVED GAS _____

CYANIDE TEST: POS _____ NEG

NH₄ OR AMINE TEST: POS _____ NEG

SOLUBILITY IN NaHCO₃: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES _____ NO

INGNITABILITY TESTING

MELTS: YES NO _____ DETONATES: YES _____ NO

IGNITES: YES NO _____ SUPPORTS FLAME: YES NO _____

ASH: YES NO _____ CARBON RESIDUE: YES NO _____

COLOR OF FLAME: green/yellow pH OF COMBUSTION GASES: _____

EVAPORATES BEFORE IGNITING: YES _____ NO _____

HALOGEN FLAME TEST

GREEN FLAME: POSITIVE NEGATIVE _____

PEROXIDE TESTING

ORGANIC PEROXIDES: POSITIVE _____ NEGATIVE

PCB TESTING

CHLOR-N-OIL PCB SCREEN: POSITIVE _____ NEGATIVE

PERCHLORIC NITRIC ACID TEST

NITRATES or CHLORATES: POSITIVE _____ NEGATIVE

NOTES: check PCBs on GC (negative on GC)
sludge Hydrocarbons

1

OXIDIZER TEST: POS NEG

SULFIDE TEST OF EVOLVED GAS: POS NEG

PH OF EVOLVED GAS _____

GAS EVOLVED: YES NO

SOLUBILITY IN 5% HCl: SOLUBLE INSOLUBLE

SOLUBILITY IN METHYLENE CHLORIDE: SOL INSOL

HEAVIER THAN WATER: _____

INSOLUBLE IN WATER: LIGHTER THAN WATER:

GAS EVOLVED: YES NO

HEAT EVOLVED: YES NO

SOLUBLE IN WATER: pH OF SOLUTION: 7.0

SOLUBILITY TESTING

SAMPLE pH: 6 VOLATILITY IN ppm: HNU OVA

COLOR: ~~Light Green~~ CLARITY: CLEAR OPAQUE

VISCOSITY: FLUID OILY VISCOSUS

PHYSICAL STATE: SOLID LIQUID SLUDGE

PHYSICAL OBSERVATION:

=====

SAMPLE STATEMENT# 78

LABORATORY ID # 13/2

***** DATA SHEET FOR COMPATIBILITY TEST *****

ACCURA ANALYTICAL LABORATORY, INC.

SOLUBILITY IN 5% NaOH: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES NO

pH OF EVOLVED GAS _____

CYANIDE TEST: POS NEG

NH₄ OR AMINE TEST: POS NEG

SOLUBILITY IN NaHCO₃: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES NO

IGNITABILITY TESTING

MELTS: YES NO

DETONATES: YES NO

IGNITES: YES NO

SUPPORTS FLAME: YES NO

ASH: YES NO

CARBON RESIDUE: YES NO

COLOR OF FLAME: _____ pH OF COMBUSTION GASES: _____

EVAPORATES BEFORE IGNITING: YES NO _____

HALOGEN FLAME TEST

GREEN FLAME: POSITIVE _____ NEGATIVE

PEROXIDE TESTING

ORGANIC PEROXIDES: POSITIVE _____ NEGATIVE

PCB TESTING

CHLOR-N-OIL PCB SCREEN: POSITIVE _____ NEGATIVE

PERCHLORIC NITRIC ACID TEST

NITRATES or CHLORATES: POSITIVE _____ NEGATIVE

NOTES: Neutral Inorganic liquid

ACCURA ANALYTICAL LABORATORY, INC.

DATA SHEET FOR COMPATIBILITY TEST

LABORATORY ID # 1313

SAMPLE STATION# 79

...and the following day, I am off to the airport to catch my flight back to the States.

PHYSICAL OBSERVATION:

PHYSICAL STATE: SOLID _____ LIQUID _____ SLUDGE Sed Jell

VISCOSITY: **FLUID** _____ **OILY** _____ **VISCOS** _____

COLOR: red CLARITY: CLEAR _____ OPAQUE _____

SAMPLE pH: _____ VOLATILITY IN PPM: HNU _____ OVA _____

SOLUBILITY TESTING

SOLUBLE IN WATER: pH OF SOLUTION: _____

HEAT EVOLVED: YES NO

GAS EVOLVED: YES NO

INSOLUBLE IN WATER: LIGHTER THAN WATER: ✓ Hard & feel won't break it
HEAVIER THAN WATER: Heavier. It is like a plastic.

SOLUBILITY IN METHYLENE CHLORIDE: SOL ✓ INSOL.

SOLUBILITY IN 5% HCl: SOLUBLE INSOLUBLE ✓

GAS EVOLVED: YES NO

-H OF EVOLVED GAS

SULFIDE TEST OF EVOLVED GAS

2025 RELEASE UNDER E.O. 14176

OXIDIZER TEST: POS NEG

SOLUBILITY IN 5% NaOH: SOLUBLE _____ INSOLUBLE

GAS EVOLVED: YES _____ NO

pH OF EVOLVED GAS _____

CYANIDE TEST: POS _____ NEG

NH₄ OR AMINE TEST: POS _____ NEG

SOLUBILITY IN NaHCO₃: SOLUBLE _____ INSOLUBLE

GAS EVOLVED: YES _____ NO

INGNITABILITY TESTING

MELTS: YES _____ NO

DETONATES: YES _____ NO

IGNITES: YES NO _____

SUPPORTS FLAME: YES NO _____

ASH: YES _____ NO

CARBON RESIDUE: YES NO _____

COLOR OF FLAME: yellow pH OF COMBUSTION GASES: 7

EVAPORATES BEFORE IGNITING: YES _____ NO _____

HALOGEN FLAME TEST

GREEN FLAME: POSITIVE _____ NEGATIVE

PEROXIDE TESTING

ORGANIC PEROXIDES: POSITIVE _____ NEGATIVE

PCB TESTING

CHLOR-N-OIL PCB SCREEN: POSITIVE _____ NEGATIVE

PERCHLORIC NITRIC ACID TEST

NITRATES or CHLORATES: POSITIVE _____ NEGATIVE

NOTES: sludge Hydrocarbons

ACCURA ANALYTICAL LABORATORY, INC.

DATA SHEET FOR COMPATIBILITY TEST

LABORATORY ID # 1314

SAMPLE STATION# 80

PHYSICAL OBSERVATION:

PHYSICAL STATE: SOLID _____ LIQUID SLUDGE _____

VISCOSITY: FLUID OILY _____ VISCOSU _____

COLOR: Brn CLARITY: CLEAR _____ OPAQUE

SAMPLE pH: 4 VOLATILITY IN PPM: HNU _____ OVA _____

SOLUBILITY TESTING

SOLUBLE IN WATER: pH OF SOLUTION: _____

HEAT EVOLVED: YES ____ NO ____

GAS EVOLVED: YES ____ NO ____

INSLUBLE IN WATER: LIGHTER THAN WATER:

HEAVIER THAN WATER: _____

SOLUBILITY IN METHYLENE CHLORIDE: SOL INSOL _____

SOLUBILITY IN 5% HCL: SOLUBLE _____ INSOLUBLE

GAS EVOLVED: YES ____ NO ____

pH OF EVOLVED GAS _____

SULFIDE TEST OF EVOLVED GAS: POS ____ NEG

OXIDIZER TEST: POS ____ NEG

SOLUBILITY IN 5% NaOH: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES ____ NO

pH OF EVOLVED GAS _____

CYANIDE TEST: POS ____ NEG

NH4 OR AMINE TEST: POS ____ NEG

SOLUBILITY IN NaHCO3: SOLUBLE INSOLUBLE _____

GAS EVOLVED: YES ____ NO

INGNITABILITY TESTING

MELTS: YES ____ NO

DETONATES: YES ____ NO

IGNITES: YES ____ NO

SUPPORTS FLAME: YES NO _____

ASH: YES NO _____

CARBON RESIDUE: YES NO _____

COLOR OF FLAME: yellow pH OF COMBUSTION GASES: 7

EVAPORATES BEFORE IGNITING: YES ____ NO _____

HALOGEN FLAME TEST

GREEN FLAME: POSITIVE _____ NEGATIVE

PEROXIDE TESTING

ORGANIC PEROXIDES: POSITIVE _____ NEGATIVE

PCB TESTING

CHLOR-N-OIL PCB SCREEN: POSITIVE _____ NEGATIVE

PERCHLORIC NITRIC ACID TEST

NITRATES or CHLORATES: POSITIVE _____ NEGATIVE

NOTES: Liquid Hydrocarbon

DATA SHEET FOR COMPATIBILITY TEST

ACCURA ANALYTICAL LABORATORY, INC.

SAMPLE STATION# 81

LABORATORY ID # 1315

PHYSICAL OBSERVATION:

PHYSICAL STATE: SOLID LIQUID SLUDGE

VISCOSITY: FLUID OILY VISCOUS

COLOR: CLEAR OPAQUE

SAMPLE PH: 7 VOLATILITY IN PPM: HNU OVA

SOLUBILITY TESTING

SOLUBLE IN WATER: pH OR SOLUTION:

HEAT EVOLVED: YES NO

GAS EVOLVED: YES NO

INSOLUBLE IN WATER: LIGHTER THAN WATER: HEAVIER THAN WATER:

SOLUBILITY IN METHYLENE CHLORIDE: SOL INSOL

SOLUBILITY IN 5% HCl: SOLUBLE /^{partly} INSOLUBLE

GAS EVOLVED: YES NO

pH OF EVOLVED GAS

SULFIDE TEST OF EVOLVED GAS: POS NEG

OXIDIZER TEST: POS NEG

*partly soluble*SOLUBILITY IN 5% NaOH: SOLUBLE INSOLUBLE _____GAS EVOLVED: YES NO

pH OF EVOLVED GAS _____

CYANIDE TEST: POS NEG NH₄ OR AMINE TEST: POS NEG *Partly*
SOLUBILITY IN NaHCO₃: SOLUBLE _____ INSOLUBLE _____GAS EVOLVED: YES NO

INGNITABILITY TESTING

MELTS: YES NO DETONATES: YES NO IGNITES: YES NO SUPPORTS FLAME: YES NO ASH: YES NO CARBON RESIDUE: YES NO

COLOR OF FLAME: _____ pH OF COMBUSTION GASES: _____

EVAPORATES BEFORE IGNITING: YES NO

HALOGEN FLAME TEST

GREEN FLAME: POSITIVE _____ NEGATIVE

PEROXIDE TESTING

ORGANIC PEROXIDES: POSITIVE _____ NEGATIVE

PCB TESTING

CHLOR-N-OIL PCB SCREEN: POSITIVE _____ NEGATIVE

PERCHLORIC NITRIC ACID TEST

NITRATES or CHLORATES: POSITIVE _____ NEGATIVE NOTES: neutral organic liquid

ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

2690 E. Ponce de Leon Ave., Decatur, GA 30030 / PO Box 1382, Decatur, GA 30031 (404)378-3877

CLIENT: HAZTECH, INC.
5280 Panola Ind Blvd.
Decatur, GA 30035

PROJECT NO#2310-88-1240
LAB PROJECT NO:170
DATE RECEIVED:9-30-88
REPORT DATE: 10-16-88

ATTENTION: Mr. Steve Holt

The following samples are grouped under Acid Organic Liquids:

LAB #	STATION #
AAL 1239	5
AAL 1253	19
AAL 1275	41
AAL 1309	75

ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

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CLIENT: HAZTECH, INC.
5280 Panola Ind Blvd.
Decatur, GA 30035

PROJECT NO#2310-88-1240
LAB PROJECT NO:170
DATE RECEIVED: 9-30-88
REPORT DATE: 10-16-88

ATTENTION: Mr. Steve Holt

The following samples are grouped under Acidic Inorganic Liquid:

LAB #	STATION #
AAL 1244	10
AAL 1258	25
AAL 1260	26
AAL 1262	28
AAL 1263	29
AAL 1265	31
AAL 1267	33
AAL 1281	47
AAL 1291	57
AAL 1294	60
AAL 1302	68
AAL 1306	72
AAL 1310	76

ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

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CLIENT: HAZTECH, INC.
5280 Panola Ind Blvd.
Decatur, GA 30035

PROJECT NO#2310-88-1240
LAB PROJECT NO:170
DATE RECEIVED:9-30-88
REPORT DATE: 10-16-88

ATTENTION: Mr. Steve Holt

The following samples are grouped under Neutral Inorganic Liquid:

LAB #	STATION #
AAL 1241	7
AAL 1248	14
AAL 1249	15
AAL 1255	21
AAL 1257	23
AAL 1280	46
AAL 1284	50
AAL 1285	51
AAL 1286	52
AAL 1289	55
AAL 1297	63
AAL 1301	67
AAL 1303	69
AAL 1304	70
AAL 1305	71
AAL 1308	74
AAL 1312	78

ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

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CLIENT: HAZTECH, INC.
5280 Panola Ind Blvd.
Decatur, GA 30035

PROJECT NO#2310-88-1240
LAB PROJECT NO:170
DATE RECEIVED: 9-30-88
REPORT DATE: 10-16-88

ATTENTION: Mr. Steve Holt

The following samples are grouped under Neutral Organic Liquids:

LAB #	STATION #
AAL 1247	13
AAL 1256	22
AAL 1270	36
AAL 1273	39
AAL 1276	42
AAL 1277	43
AAL 1282	48
AAL 1290	56
AAL 1296	62
AAL 1298	64
AAL 1299	65
AAL 1315	81

ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

2690 E. Ponce de Leon Ave., Decatur, GA 30030 / PO Box 1382, Decatur, GA 30031 (404)378-3877

CLIENT: HAZTECH, INC.
5280 Panola Ind Blvd.
Decatur, GA 30035

PROJECT NO#2310-88-1240
LAB PROJECT NO:170
DATE RECEIVED: 9-30-88
REPORT DATE: 10-16-88

ATTENTION: Mr. Steve Holt

The following samples are grouped under liquid Hydrocarbons:

LAB #	STATION #
AAL 1236	2
AAL 1237	3
AAL 1238	4
AAL 1250	16
AAL 1252	18
AAL 1266	32
AAL 1268	34
AAL 1269	35
AAL 1274	40
AAL 1278	44
AAL 1283	49
AAL 1293	59
AAL 1314	80

ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

2690 E. Ponce de Leon Ave., Decatur, GA 30030 / PO Box 1382, Decatur, GA 30031 (404)378-3877

CLIENT: HAZTECH, INC.
5280 Panola Ind Blvd.
Decatur, GA 30035

PROJECT NO#2310-88-1240
LAB PROJECT NO: 170
DATE RECEIVED: 9-30-88
REPORT DATE: 10-16-88

ATTENTION: Mr. Steve Holt

The following samples are grouped under Sludge Hydrocarbons:

LAB #	STATION #
AAL 1235	1
AAL 1242	8
AAL 1243	9
AAL 1246	12
AAL 1251	17
AAL 1254	20
AAL 1261	27
AAL 1271	37
AAL 1279	45
AAL 1288	54
AAL 1295	61
AAL 1300	66
AAL 1311	77
AAL 1313	79

ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

2690 E. Ponce de Leon Ave., Decatur, GA 30030 / PO Box 1382, Decatur, GA 30031 (404)378-3877

CLIENT: HAZTECH, INC.
5280 Panola Ind Blvd.
Decatur, GA 30035

PROJECT NO#2310-88-1240
LAB PROJECT NO:170
DATE RECEIVED: 9-30-88
REPORT DATE: 10-16-88

ATTENTION: Mr. Steve Holt

The following samples are grouped under Base Inorganic Liquids:

LAB #	STATION #
AAL 1245	11
AAL 1258	24
AAL 1264	30
AAL 1272	38
AAL 1287	53
AAL 1292	58
AAL 1307	73

APPENDIX E
Chain-of-Custody Forms

CHAIN OF CUSTODY RECORD

HAZTECH
HAZTECH INDUSTRIAL LTD.
DECATUR, GA 30036-4913
(404) 971-4222

CHAIN OF CUSTODY RECORD

HAZTECH
SISTEMAS INTEGRAL S.A.
DE C.V.
CASA 1A-1003
100 911-5022

THE VILLE

CHAIN OF CUSTODY RECORD

HAZTECH
2035 PANTOJA INDUSTRIAL RD.
DECATUR, GA 30036-6113
(404) 971-3322

SECO INDUSTRIAL EVO.
DECANT, GA 30036-4013
404 971-9332

CHAIN OF CUSTODY RECORD

HAZTECH
 220 PANDA INDUSTRIAL BLVD.
 DECAVIL, GA 30035-8513
 404 971-1622

PROJ. NO.	PROJECT NAME			Water/Wastewater	Soil/Sed	Sludge/Waste	Misc.				
	SAMPLERS (Signature)										
STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION			NO. OF CONTAINERS	REMARKS/TAG NUMBERS		
47	1/1/90	1430	BL	BL	D143, #143						
48					146, 152, 160						
49					155, 172, 204, 207						
50					157						
51					161						
52					162						
53					164, 165						
54					166, 173, 179, 187, 188, 194, 195						
55					171						
56					173						
57					174						
58					174						
59					175						
60					176						
61					196, 197, 198, 199, 206, 207						
Rerlinquished by: (Signature)				Date/Time	Received by: (Signature)	Rerlinquished by: (Signature)	Date/Time	Received by: (Signature)	Remarks		
<i>C. J. Clark</i>				1/1/90							
Rerlinquished by: (Signature)				Date/Time	Received by: (Signature)	Rerlinquished by: (Signature)	Date/Time	Received by: (Signature)			

DISTRIBUTION: Each time a sample is relinquished, the person relinquishing same shall keep bottom copy.

PROJ. NO. **PROJECT NAME**

PROJ. NO.	PROJECT NAME
BLGK 134	Spectrum Printing
SAMPLERS (Signature)	

PROJ. NO.	PROJECT NAME
BLGK 134	Spectrum Printing
SAMPLERS (Signature)	

PROJ. NO.		PROJECT NAME	
Block 1340		Spectrum Printing	
SAMPLES (Signature)		3454	
STA. NO.	DATE	TIME	COMP.
			GRAB
61	1/11/80	V	DIGI, n# 200, 203
62		V	262, 265
63		V	
64		V	210
65		V	215
66		V	214, 217, 218, 221, 222, 223, 224, 225, 226
67		V	217
68		V	220
69		V	220
70		V	221
71		V	222, 224, 245
72		V	223
73		V	226
74		V	225
75		V	237
76		V	248

DISTRIBUTION: Each time a sample is relinquished, the person relinquishing same shall keep bottom copy.

CHAIN OF CUSTODY RECORD

HAZTECH
SOMOS PIONERA INDUSTRIAL ALVO.
DECAIR, GA 30050-0113
1-800-541-5332

**HAVE
YOU**

DISTRIBUTION: Each time a sample is relinquished, the person relinquishing same shall keep bottom copy.

ATTACHMENT F

Log Notes

ACCURA ANALYTICAL LABORATORY, INC.

DATA SHEET FOR COMPATIBILITY TEST

LABORATORY ID # 1296

SAMPLE STATION# 62

PHYSICAL OBSERVATION:

PHYSICAL STATE: SOLID _____ LIQUID SLUDGE _____

VISCOSITY: FLUID OILY _____ VISCOSUS _____

COLOR: Brown CLARITY: CLEAR Cloudy OPAQUE _____

SAMPLE pH: 7 VOLATILITY IN PPM: HNU _____ OVA _____

SOLUBILITY TESTING

SOLUBLE IN WATER: pH OF SOLUTION: partly sol 7 pH

HEAT EVOLVED: YES NO

GAS EVOLVED: YES NO

INSLUBLE IN WATER: LIGHTER THAN WATER: _____

HEAVIER THAN WATER: _____

SOLUBILITY IN METHYLENE CHLORIDE: SOL partly INSOL _____

SOLUBILITY IN 5% HCL: SOLUBLE INSOLUBLE

GAS EVOLVED: YES NO

pH OF EVOLVED GAS

SULFIDE TEST OF EVOLVED GAS: POS NEG

OXIDIZER TEST: POS NEG

SOLUBILITY IN 5% NaOH: SOLUBLE _____ INSOLUBLE

GAS EVOLVED: YES _____ NO

pH OF EVOLVED GAS _____

CYANIDE TEST: POS _____ NEG _____

NH4 OR AMINE TEST: POS _____ NEG

SOLUBILITY IN NaHCO3: SOLUBLE _____ INSOLUBLE

GAS EVOLVED: YES _____ NO

INGNITABILITY TESTING

MELTS: YES NO _____ DETONATES: YES _____ NO

IGNITES: YES NO _____ SUPPORTS FLAME: YES _____ NO _____

ASH: YES _____ NO _____ CARBON RESIDUE: YES NO _____

COLOR OF FLAME: yellow pH OF COMBUSTION GASES: 7

EVAPORATES BEFORE IGNITING: YES _____ NO

HALOGEN FLAME TEST

GREEN FLAME: POSITIVE _____ NEGATIVE

PEROXIDE TESTING

ORGANIC PEROXIDES: POSITIVE _____ NEGATIVE

PCB TESTING

CHLOR-N-OIL PCB SCREEN: POSITIVE _____ NEGATIVE

PERCHLORIC NITRIC ACID TEST

NITRATES or CHLORATES: POSITIVE _____ NEGATIVE

NOTES: sludge Hydrocarbon

HAZTECH

5280 PANOLA INDUSTRIAL BLVD.
DECATUR, GA 30035-4013
(404) 981-9332

STEVE A. HOLT
OPERATIONS

24 HOUR EMERGENCY NUMBER (404) 981-9339

**Westinghouse
Environmental Services**

Douglas L. Snyder
Project Supervisor

Westinghouse HAZTECH, Inc.
5280 Panola Industrial Blvd.
Decatur, Georgia 30035
(404) 981-9332
FAX (404) 593-3959



07 September 1988
posthumous printing of the
In almandine garnet that has
recently been found.
Dear Mr. Miller
Garnet EPA # 639488
The largest number of the
old garnets that I have
seen since 1978, what

- 28 September 1988
- 0730 Left to reach site (to Spectrum Printing Site) in Covington, Newton County, Georgia.
- 0855 Arrived at Spectrum Printing Site with TATM Karen Gill, Christi Ulmer and Jim Wyan.
- 0920 Steve Holt (Haztech) arrived at site. Question Holt about drums. Drums are inside of building. The drums will be staged. Drums will be, that is (the contents) has bucked. Contents dumped in roll-off. Drums will be crushed and eventually dumped in roll-off. Residuals under drums will be scraped. Not sure what the PHF wants done with the drums on inside. Will probably use an articulate arm. Haztech contractors wore tyveks instead of serax or polycoated.
- ~~1000~~ ~~1000~~ Asked Steve Holt about HNu. He said New HNu no calibration log, should already be calibrated. Get it from Tracy ~~and~~ ^{Tina} and ~~Reid~~ ^{T.W.}
- 1005 Began staging of drums. Decor set up. Oil drum, eye wash 50 gal drum of water. Drums are on top of pallets, 3 or 4 drums to a pallet.
- 1030 Haztech contractors used Serax instead of tyveks. Discussed with Steve Holt. (2 technicians) Used because of printing ink. Jim Wyan

Blue Building

void



connection



loading
dock

stop sign

Drum Area
Driver places
canted wood
here
pile

X X
X X

West St.

TAPED OFF HOT ZONE

DECON

stop
sign

(C)

98 December 1988

1045 Whistek (Woot) pulled up in the dock
of their pumping. Cleaned their
separators were seen on outside
of hood. Fan packing had a trace
used. Gaskets were placed in inner
area.

1220 Hydrok Appended pumping to boat
for fuel. This fuel will be used
for fuel. They also received for direct.

1335 Dismantled tank at site (hydrok and
GADM's) to set up pumping (hydrok).
1500 ADM's left site to go back to Bureau.
Dismantled contractor were still at site
pumping down. At 1545 Bureau/ADP & R. division.

1545 Bureau at Bay of Fundy/H.P. & R. division.

29 September 1988

- 1000 Left to reach site destination Spectrum Printing Conington, Newton, County, Georgia, for PRP response. DADM's Christi Ulmer and Terri Wynn
- 1110 Arrived at destination Spectrum Printing. Spoke with Steve Hatt. Said he found a lot of low pH's in the plastic drums, no adhesives. Observed sampling of drums. The operator of the ~~forklift~~ ^{forklift} ~~Wetwheeled~~ Wetwheeled two more drums that were not brought out yesterday (28/9/88). There ~~was~~ ^{T.W.} is a drum back behind the bushes in front of the building on the side of the warehouse. The Haztech contractors did not sample it.
- 1345 The drums that ~~were~~ ^{are T.W.} being sampled at this point from observation, the contents looked viscous. They seem to have difficulty procuring the contents and placing it in a jar.
- 1430 The Haztech contractors began decon. Asked Steve Hatt if they had completed the sampling, he replied yes. We spoke about the HN u. He commented about the person he received it from and that it was used once or twice before he got it and that having a calibration log was a good idea. Terri Wynn

~~1455 Dept. of Fish & Game
1555 Bureau of Fisheries~~

1430 of which before it would be
important to put it world in
a more. It then added about the
body. It then added about the
tissues said. He said the one
of the tissues said. It is said
about the analytical results.
of which a copy could be sent to
the U.S. Department of Fisheries
for me. He hoped that it would
be up to present him
1455 Dept. of Fish & Game

~~1555 Bureau of Fisheries~~

29 September 1988
1600 Samples collected by Haztech
Contractors ^{samples} are being shipped
sent to Savannah Labs for
analysis. Spoke with Steve
Halt ^{about} confirmed laboratory.
Asked Steve about drum
inventory and manifests.
Jeri Weyna

November 8, 1988

Spectrum Printing
Georgia Environmental Protection
Division. 656-2836
Harmona Kline
Cindy ^{Tui} Lane ~~Lane~~ ^{Haztech} 981-9332
Fenee Goodley Supervisor

When removal begins, give
Fenee Goodley a call.

Cindi Lane
11-8-88

8 November 1988
0920 Called Steve Hatt at Westinghouse Haztech. Inquired Hatt about a definite removal date. He could not give me one at this time - The organics in the waste at Spectrum Printing, he had not decided what needed to be done to dispose of them. He is looking for options. He will speak with Mr. Kaiser on Friday November 11, 1988 to try to come up with a solution.

He replied that the inorganics did solidify with Portland Cement. The inorganic portion of the waste may go to Chemical Waste Management Landfill in Ermelle, Alabama.

Iri Wynn

0900 ADC Blue Fly telephone call from W. L. Dugay
up at 544P BATTALION SITE, AIFORC
DACSON COUNTY, FLORIDA to inform
and quarry about SPEDTUNA PLANTING SITE, OVIENETON,
NEWTON COUNTY, GEORGIA. TAT informed
that Blue Fly that SPEDTUNA
is going to have a meeting to
discuss dropping off the board,
so we are meeting with the members
of what to do with some of
the components of the board.
ADC Blue Fly informed TAI why
that they are having a meeting
on this day which (HARTECH) and
that the contractor (HARTECH)
to attend to settle the dispute. The source
replies that Blue Fly was handling the
dispute. ADC Blue Fly informed TAI that
they were handling the dispute. Blue Fly
informed TAI that Blue Fly was handling the
dispute. Blue Fly informed TAI that Blue Fly
was handling the dispute. Blue Fly informed TAI
that Blue Fly was handling the dispute.
The source says Blue Fly was handling the
dispute. Blue Fly informed TAI that Blue Fly
was handling the dispute.

November 22, 1988

Steve Helt (Haztech)
TAT Wynn spoke with
Steve Helt on lab results
being sent to TAT office
in care of Teri Wynn(TAT).
TAT Wynn was told that
lab results would be in
Friday, and as soon as
he receives them, he
would make TAT wynn
a facsimile of the results
and FedEx them to me.
TAT Wynn was also told
by Steve Helt that it would
take a month to complete
the manifest on the content
of the drums. I requested
that a copy be sent as
soon as (the manifest) it
is completed.

Teri Wynn

88-69116-9-8
Jewell C. Johnson

After all the people who also the
Gildy informed Mr Ulrich that
Also when trying to reach the
Gildy did a lot of work to
Also a lot of time to
Gildy all day and made to know
about all day and made to know
about he will be out there or
the when the first is to go out.

February 28, 1989

Doug Snyder of Westinghouse Haztech telephone TAT Wynn to inform her of a possible removal date, Monday, ~~February~~ March 6, 1989, at the Spectrum Print Site in Covington, Newton County, Georgia. Possibly 7 to 10 days to complete the removal.

Ficel was mentioned as the disposal facility (located in Florida).

Doug Snyder has tried to contact OSC Bill Klutz to obtain permission to start the removal actions, but OSC Bill Klutz is out of town and will not be returning until Monday, March 6, 1989.

The wastestreams consisting of water, inks, isopropyl alcohol, adhesives, and contaminated dirts and sludges will probably be combined. The wastes does not contain anything hazardous.

Cindy Luns of Haztech informed TAT Wynn on the 1-24-89 that appraisal was obtained Thursday 1-19-89, to send ~~waste~~ begin removal and send wastes to Ficel in Florida.

March 6, 1989

0845 Arrived at Spectrum Printing Site
Conington, Newton County, Georgia
Weather: cloudy, overcast, slight
rain temp: 43°F.
Removal action to take place.

0900 Haztech arrived on-site.
Doug Snyder will be site supervisor.

Personnel - 5 ERCS, 1 SAI

Equipment - ~~1~~ forklift
~~1~~ backhoe w/AF

Haztech left site to ~~return~~^{tip} return
to office to pick up more
drums to overpack rusted
bent drums at the site.

1015 Conington Police arrived at
site. (766-2774).

1130 Doug Snyder along with 3 other
HAZTECH personnel arrived at site
with breathing air, eye wash, tool
chest, 2 cylinders of air for ambient
air monitoring.

1200 Doug said that he will have
an explosivesmeter and an HNU.
SAI asked if the HNU was new,
Snyder replied that it was and
should already be calibrated.
SAI said that the HNU should be
calibrated again on-site before use.

Dear Mr. You

Dear Mr. You

1960

All department acts shall be

drawn over not to be touched.
The hour period when the
class and all equipment must
stand quiet. The other
and summers and the others
draws that we already brought
to drawing boards will be to the
the conducted with according
to the early thing HATTECH will

1930

of the building.

draws and decorating entrance
placed in all around the
other from the example
equipment in building. Location
HATTECH will placing normal
draws should act like.

1930

such house.

all personnel depart at for

1930

they want especially legends
each in the building
HATTECH open door and
that of building to act

1930

March 8, 1989

0830 Left office to go to Spectrum
Printing in Conington, Newton County,
Georgia.

0955 Arrived at Spectrum Printing Site
in Conington, Newton County, Georgia,
to monitor on-site contractor
removal of wastes from drums.
Personnel - 6 ERCS

Equipment - Forklift
Backhoe w/ articulate arm
Compressor

Weather: Cold, cloudy, slight rain,
temp. - 37°F.

1030 ERCS contractor brought drums
to oversack and to combine
wastestreams. ERCS contractor
using pump to

1200 Lunch break

1430 Haztech (ERCS contractor) have emptied
approximately 25 drums). There
are 258 drums on-site and
a storage tank that will be
emptied also.

1730 Left site. Haztech still on-site.

1900 Arrived in Atlanta.

Jeri Wynn

1500 same as water pouring
down on top and pull
down. Cannot tell when
water down or pulled.

1330 Clear found water. Collector
will eat, but puny.

1200 Blue

1030 Clear (ERCA) from old drum
(polluting) from burning
of former waste. Laying
to former waste
burning waste drums. (can burn
to the drum. (can burn
to form more waste.)

1000 flying gull, light supercilious
bird inside of empty building
in what was called the
tree farm.

990 ^{Boat house by steel} ^{and} ^{concrete}
equilibrium : battle
I JAG

980 ^{Boat house} ^{I.G.F.} ^{ERCA}
Hutton: many houses,
trees, fields

970 ^{Boat house} ^{ERCA} (burning) Western County
March 9, 1989 to go to south

1730 Crew still on-site working.
1800 DAD departs sight for Atlanta.
ERCS beginning to shut down
sight for today.

Teri Wynn.

1930 040 departs Alt. EPC A track
in-alt. Preparation for EPC A
departures taking place.
Why do we have

1930 (EPC) same work.

1930 Break

1930 Work from Aligned drums
using pumped into drums

Equipment: Backhoe with
articulated arm
Compressor
Jacket

1930 040 - 1
Pavement: EPC A - C
Material: Sandy, warmer, dry
Alt. working.
1930 Gravel at Alt. EPC A -

0830 Left office for Alt:
Spectum Painting, County
Newton County, Kansas.

March 10, 1989

March 11, 1989

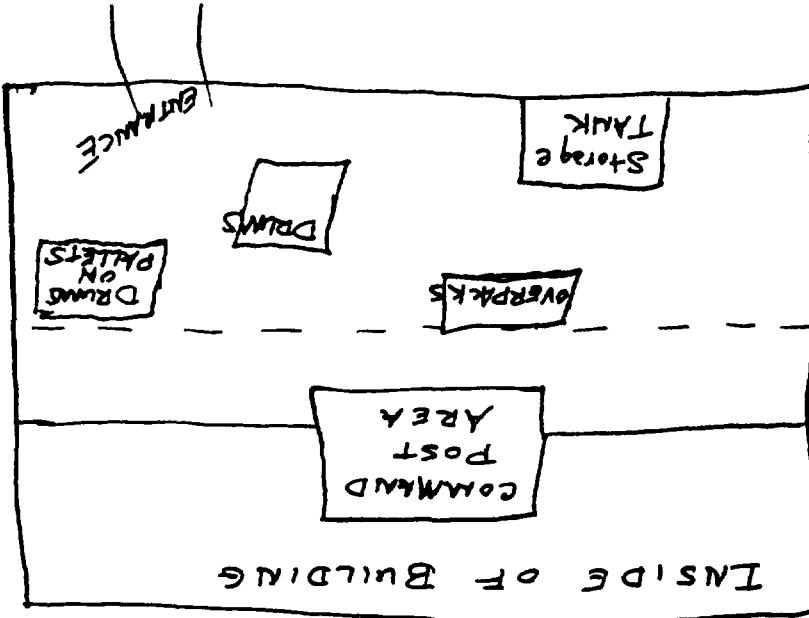
- 0830 Left to go to Space Station Flyover
Site, Cushington, Weston County, Wyoming
0945 Boarded at site.
1000 Ho-ho on site while around
house.
1100 Left site in La Crosse.
1230 Dined in Atlantic.

21

March 12, 1989

No site work today.

Terri Wyne



1045 747 along with doing laundry
Right Supervisor, Hartreich, to a
command post area on-Air
desertioning command post area on-Air
of water from drums and
of storage tank.

Wear: cloudy, some sun.
Wear: high 60.0°.

747 - 2

747 - 1

ERCB - 6

Office: Equipment: Backhoe, Tractor
along with the construction post
1000 drums on-Air. ERCI on-Air
1945 stepped 60° up.
(Count) 1000 drums.

Platinum site in construction, plow to
0030 left after for operation

March 13, 1989

1100 Only 3 drums were over-packed due to the poor condition of drums. HAZTECH is trying to use as many of the original drums as possible in order to keep costs low.

The backhoe was demobilized from the site on Friday and brought back on-site on this date.

The vat (storage tank) has not been emptied yet. Almost all the drums have been emptied of their contents. Plans to begin pumping the vat will begin approximately Tuesday, March 13, 1989, after lunch break.

The contents of the vat is extremely dense. Doug Snyder would like to pump the contents out by ^{Tue} using attaching a hose ($\frac{1}{4}$ inch) to the bottom of the vat where there's a connection and allow the

weight of the contents to push itself ~~the~~ down through the hose into the drum.

The problem with this plan is that there's no way of telling when the drum is filled.

If the plan does not work, the crew will have to manually empty the tank by dumping 5 gallon drums into the ~~contents and~~ drum and emptying the contents into the drum.

1230 Lunch break.

1430 Staging of already filled drums ~~in~~ into warehouse area of building. Drums are on pallets. Visqueen has been placed underneath pallet to insure no contact of drums' contents with floor.

- 1530 ERCS assessing conditions
of tank and contents and
best way to empty.
- 1700 ERCS trying to set up
plan.
- 1730 TAG leaves site for Atlanta.
ERCS still on-site.
Terri Wynn

Dear Mr. Day

1900 TA7 leaves Agate. ERA
out straight.

1640 Jet PTA during emp trial

1530 Digging to company rot. (bottom)
into drum. Some surfloss.
do coming through hole

1400 Two completing digging and
cleaning of water area in
front of building in old
factory driveway.

1330 Church Street.

1045 ERA etc company
of drum. Should have
plaque after lunch.
Wet - many mud high lots
decayed - 2

TA7 - 1

all. ERA - C
1000 Digged on - site. ERA on -

0830 Left to arrive at Speculum
County, Georgia.
Counting site in connection, Alumina

March 14, 1989

near Hwy

1900 TA7 leaves right. Near
dinner today.

1550 Left almost impossible. Many
columns needed to hold up
contours.

1230 Lunch break.

0945 TA7 embankment lot. Holes
will be deepening column
to base.

Weather - cloudy, mild.

Geometric 2

TA7 - 1

ERA - 4

Surveyor

Completion, Western County,

0800 Left to go to site in

March 15, 1989

1

3

27 September 1988

Spectrum Printing Site

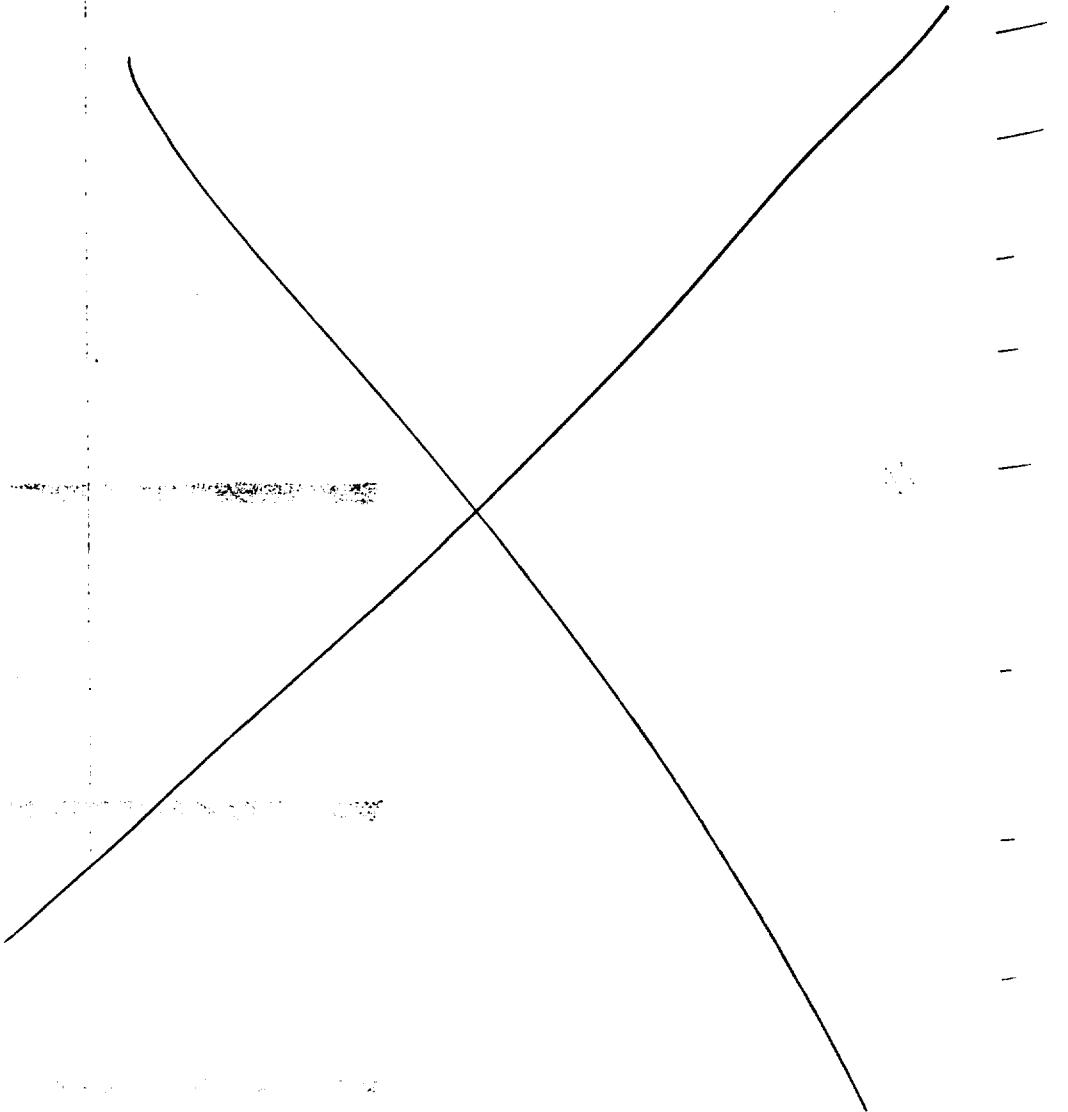
An abandoned facility that has
recently been sold.

Jeri Kynn

Camera EPA # 639488

Site located between Hwy 278, West
St. and Old Atlanta Hwy.

Jeri Kynn



28 September 1988

0730 Left to reach site (to Spectrum Printing Site) in Covington, Newton County, Georgia.

0855 Arrived at Spectrum Printing Site with TATM Karen Hill, Christi Ober and Jim Wynn.

0920 Steve Holt (Haztech) arrived at site. Question Holt about drums. Drums are inside of building. The drums will be staged. Drums will be; that is (the contents) be bucked. Contents dumped in roll-off. Drums will be crushed and eventually dumped in roll-off. Residuals under drums will be scraped. Not sure what the PDP wants done with the drums on inside. Will probably use an articulate arm. Haztech contractors wore tyveks instead of sermax or polycoated.

1005 ~~TW 7/20/88~~ Asked Steve Holt about H/Nu. He said New H/Nu no calibration log, should already be calibrated. ~~that it~~ from Tracy ~~Holt~~ and Neil. I.W.

1005 Began staging of drums. Decon set up. Oil drum, eye wash 50 gal drum of water. Drums are on top of pallets, 3 or 4 drums to a pallet.

1030 Haztech contractors used sermax instead of tyveks. Discussed with Steve Holt. (2 technicians) Used because of printing ink. Jim Wynn

Blue Building

Door

Door

Sheets

loading dock

stop sign

Drum Area
Drum Pallets
Wood
pile

old Atlanta Hwy St.
West St.

TAPED OFF Hot ZONE

DECON

stop
sign

CO

~~1045 Higuchi (Hiro) pulled up in his motor
18 April 1988~~

~~1045 Higuchi (Hiro) pulled up in his motor
18 April 1988~~

~~1120 Higuchi stopped pumping to locate
water. They also discussed fish species.
1335 Shumard tract at site (Higuchi said
they left site to go up Higuchi (Higuchi's
DAMs) to set up sampling (Higuchi)
1520 HIGUCHI left site to go back to Higuchi's
dugout construction were HIGUCHI at site
1645 Shumard at Higuchi's H.P. & R. division.~~

~~1645 Shumard at Higuchi's H.P. & R. division.
Higuchi stopped at site to see HIGUCHI at site~~

29 September 1988

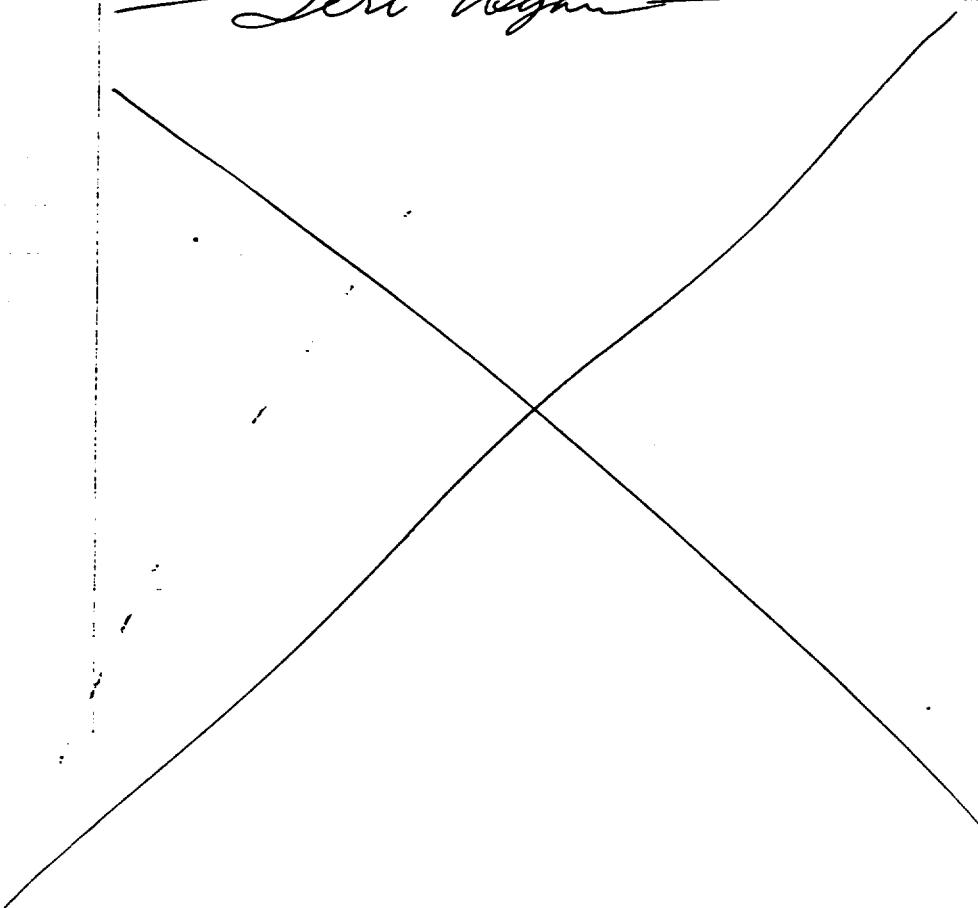
- 1000 Left to reach site destination Spectrum Printing, Conington, Newton, County, Georgia, for PRP response. DADM's Christi Ulmer and Terri Wynn
- 1110 Arrived at destination Spectrum Printing. Spoke with Steve Hatt. Said he found a lot of low pH's in the plastic drums, no adhesives. Observed sampling of drums. The operator of the ~~forklift~~ ^{forklift} returned two more drums that were not brought out yesterday (28/9/88). There was ^{T.W.} a drum back behind the bushes in front of the building on the side of the warehouse. The Haztech contractors did not sample it.
- 1345 The drums that ^{are T.W.} being sampled at this point from observation, the contents looked viscous. They seem to have difficulty procuring the contents and placing it in a jar.
- 1430 The Haztech contractors began decon. Asked Steve Hatt if they had completed the sampling, he replied yes. We spoke about the HN u. He commented about the person he received it from and that it was used once or twice before he got it and that having a calibration log was a good idea. Terri Wynn

29 September 1988

1430 I asked Steve Holt about the Manifest, he said it would be a month before it would be ready. I then asked about the business card. He gave me one of his business cards. I asked about the analytical results. I wanted a copy of it sent to me. He replied that it would be up to Spectrum Printing ^{if a} ~~to~~ send a copy could be sent to me.

1455 Left site. (Spectrum Printing)

1555 Arrived at destination. Roy F. Westo.
— Jeri Wynn



29 September 1988
1600 Samples collected by Haztech
Contractors samples are being shipped
sent to Savannah Labs for
analysis. Spoke with Steve
Holt ^{about} confirmed laboratory.
Asked Steve about drum
inventory and manifest.
Jeri Wilho

November 8, 1988

Spectrum Printing

Georgia Environmental Protection
Division. 656-2836

Hammona Kline

Cindy ^{Tel:} Lone Star Hatchet 981-9332
Renee Goodley Supervisor

When removal begins, give
Renee Goodley a call.

Icri Lynn
11-8-88

Called at the office at Worcesterhouse
Architect. I passed off with a lot of
debt until I removed down . He could
not get you miss out at this time
but spacious in the way of
opportunity presenting, he had not
the result which would be to the

0930 Card 97041
8 November 1986

0900 ADC Blue Flute telephone handset to Refugee UACSON COUNTY, FLORIDA
up at Sharp Batterfly SITE, Alford
and quarry about mile west Information
Refugee holding former office at the
SECTEUR PRINTING SITE, Ovintown
NEWTON COUNTY, GEORGIA. AT July
informed ADC Blue Flute that in
the first telephone connection
with some other (Hazzeth), there
was going to have a meeting to
discuss disposal of the waste,
and that the he and whom ever
to ~~the~~ meeting would use same
of what to do with some
the components of the waste.
ADC Blue Flute informed AI why
that they are having a meeting
on this day with (Hazzeth) and
that the contractors (Hazzeth)
accused to solidify the organic
the waste. ADC Blue Flute said that
they thought that this was
the proper way of handling the
waste.

November 22, 1988

Steve Holt (Haztech)

TAT Wynn spoke with Steve Holt on lab results being sent to TAT office in care of Teri Wynn(TAT).

TAT Wynn was told that lab results would be in Friday, and as soon as he receives them, he would make TAT Wynn a facsimile of the results and FedEx them to me.

TAT Wynn was also told by Steve Holt that it would take a month to complete the manifest on the contents of the drums. I requested that a copy be sent as soon as (the manifest) it is completed.

Teri Wynn

December 9, 1988

- 1500 Cindy ^{TW Davis} of Georgia Environmental Protection Division telephoned TAT office to speak with TAT Weyra on Spectrum Printing site. Cindy ^{TW Davis} has updated TAT Weyra with the following:

Before December 22, 1988, they will be pulling the tank; all the samples that was done is worthless, (Hazardous Categorization for Landfill). Gary Rogers will be the sight supervisor and will be telephoning to inform TAT Weyra of the removal date according to Cindy ^{TW Davis} of Georgia EPP; Bill Klutz wants to categorize the wastes as $(KO_8)_6$. The removal and disposal should run between \$12,000 and \$15,000; it will be March before the wastes are disposed of and Thermokern will probably get the waste.

Cliff of Georgia EPP will also be there.

Cindy informed TAT Weyra that she's been trying to reach Bill Klutz all day and needs to know if he will be out there on site when the tank is pulled.

Sir Weyra 12-9-88

February 28, 1989

Doug Snyder of Westinghouse Haztech telephone TAT Wyndham inform her of a possible removal date, Monday, February/March 6, 1989, at the Spectrum Printing Site in Covington, Newton County, Georgia. Possibly 7 to 10 days to complete the removal.

Ficel was mentioned as the disposal facility (located in Florida).

Doug Snyder has tried to contact OSC Bill Klutz to obtain permission to start the removal actions, but OSC Bill Klutz is out of town and will not be returning until Monday, March 6, 1989.

The Wastestreams consisting of water, inks, isopropyl alcohol, adhesives, and contaminated dirts and sludges will probably be combined. The wastes does not contain anything hazardous.

Cindy Lams of Haztech informed TAT Wyndham on the 1-24-89 that approval was obtained Thursday 1-19-89, to ~~send wastes begin~~ begin removal and send wastes to Ficel in Florida.

March 6, 1989

0845 Arrived at Spectrum Printing, Inc.
Conington, Newton County, Georgia
Weather: cloudy, overcast, slight
rain temp: 43°F .

Removal action to take place.

0900 Haztech arrived on-site.
Doug Snyder will be sight supervisor.

Personnel - 5 EACs, 1 JAO

Equipment - ~~1~~ forklift
~~1~~ backhoe w/AT

Haztech left site to ~~return~~^{try} return to office to pick up more drums to overpack rusted bent drums at the site.

1015 Conington Police arrived at site. (766-2774).

1130 Doug Snyder along with 3 other HAZTECH personnel arrived at site with breathing air, eye wash, tool chest, 2 cylinders of air for ambient air monitoring.

1200 Doug said that he will have an exhalometer and an HNU. JAO asked if the HNU was new, Snyder replied that it was and should already be calibrated. JAO said that the HNU should be calibrated again on-site before use.

July 10 1942

Extracts.

1900

GAS departed At the dock to

drums were not to be handled.
the bows placed near the
dock and did equipment that
should penetrate. The other
and lumbered and the allow-
dumus that are already ~~dragged~~
to drag under until the fire
the conduct with according

1530

All oily tiring HATTECH with
drums and blocking entrance
placed in the second the
dock from the example by
equipment in the building. Failure
HATTECH after placing wooden
frames around it At .

1430

1330 All personnel departed At for
lunch break.

1230 HATTECH opened door around
back of building to fit
equiment in the building
back soon ~~reversely~~ logan .

March 8, 1989
0830 Left office to go to Spectrum
Printing in Covington, Newton County,
Georgia.

0955 Arrived at Spectrum Printing Site
in Covington, Newton County, Georgia,
to monitor on-site contractor
removal of wastes from drums.
Personnel - 6 ERCS

Equipment - Forklift
Backhoe w/ articulate arm
Compressor

Weather: Cold, cloudy, slight rain,
temp. - 37°F.

1030 ERCS contractor brought drums
to oversack and to combine
wastestreams. ERCS contractor
using pump to

1200 Lunch break

1430 Haztech (ERCS contractor) have emptied
approximately 25 drums. There
are 258 drums on-site and
a storage tank that will be
emptied also.

1730 Left site. Haztech still on-site.
1900 Arrived in Atlanta.

Jeri Wynn

March 9, 1989

0830 Gutter (ERCA) from existing water
in what was called the
water hole of swampy building
in front farm.

1000 Dredging, light pumping
of former water course
to former water
course. Using
(pumping) from old drain
to new drain. (see drawing
of same water course
to form new water
course.)

1200 Backfill
1330 Clear formed waste. Correct
this east, but many.

1500 Same of waste piping
down. (see drawing
showing top and side view
of waste piping)

1730 Crew still on-site working.
1800 DAD departs sight for Atlanta.
ERCS beginning to shut down
sight for today.
Teri Wynn.

March 10, 1989

0830 Left office for site:
Spectrum Printing, Covington,
Newton County, Georgia.

1000 Arrived at site. ERCS on-site working.

Weather: Sunny, warmer, high's
60°F.

Personnel: ERCS - 6
JAS - 1

Equipment: Backhoe with
articulate arm
Compressor
Forklift

1030 Wastes from staged drums
being pumped into ~~drums~~ tanks.

1200 Break

1330 Crew(ERCS) resumes work.

1730 JAS departs site. ERCS still
on-site. Preparation for ERCS
departure taking place.

Teri Wynn

March 11, 1989

20

8830 flight to go to Spur etown from Laramie
8945 Ground at site
9000 No one on site who could
8766 No fixed personnel found
1000 No one on site who could
1830 Ground in Garttun
1100 Left site to Kym
1830 Ground in Garttun

21

March 12, 1989

No site work today.

Tom Wyre

March 13, 1989

0830 Left office for Spectrum
Printeridge Site in Covington, Newton
County, Georgia.

0945 Stopped for fuel.

1000 Arrived on-site ERCS on-site
along with two Covington Police
Officers. Equipment: Backhoe, Forklift

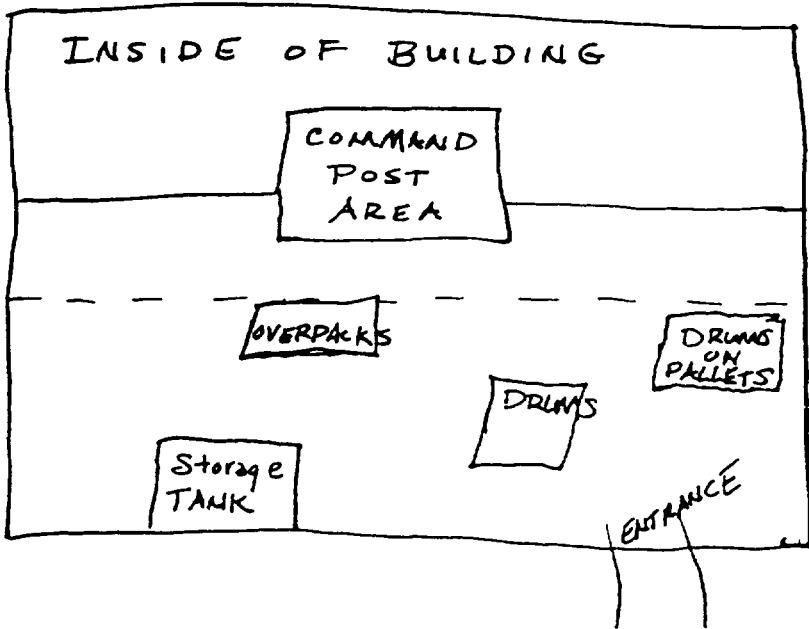
ERCS - 6

TA 7 - 1

Other - 2

Weather: cloudy, some sun.
Warm; high 60's.

1045 TA 7 along with Doug Dryder,
Right Supervisor, HAZTECH, in
command post area on-site;
discussing completion of removal
of waste from drums and
storage tank.



1100 Only 3 drums were over-packed due to the poor condition of drums. HAZTECH is trying to use as many of the original drums as possible in order to keep costs low.

The backhoe was demobed from the site on Friday and brought back on-site on this date.

The vat (storage tank) has not been emptied yet. Almost all the drums have been emptied of their contents. Plans to begin pumping the vat will begin approximately Tuesday, March 13, 1989, after lunch break.

The contents of the vat is extremely dense. Doug Snyder would like to pump the contents out by ^{Tue} ~~using~~ attaching a hose ($\frac{1}{4}$ inch) to the bottom of the vat where there's a connection and allow the

6/6/00

1930 Striking of already broad
drums ~~of side~~ have to be
done so of surtaining. drums
are in pallets. drums
has been placed under
pallet to know no contact
with drums, contacts will
be made.

1930 Much work

If the plan does not work,
the crew will have to manu-
facture the tank by dumping
5 gallon drums into the
empty tanks the tanks by dumping
~~drums and~~ drums and
emptying the contents into
the drums.

The problem with this plan
is that there is no way
of getting when the drums
plan to do this.

The weight of the concrete
would stay till the down when
the have into the drum

- 1530 ERCS assessing conditions
of tank and contents and
best way to empty.
- 1700 ERCS - trying to set up
plan.
- 1730 TAG leaves site for Atlanta.
ERCD still on-site.
Terri Wynn

Dear Sirs

1940 T47 leave right.
all on-right.

1640 left after being impacted.

1530 ~~burying~~ to company road. (Buried
so coming through have
into drum. some surface loss.)

1450 two completing ~~burying~~ ad
cleaning of road area and
front of trucking in old
different highway.

1380 church Street.

1045 ERCA site impacting
of drum. should be
cleaning off the church.

Wetten - away road high 600
decidedly - 2

T47 - 1

ERCA - C
alt. ERCA on -

1000 Grinned on - alt. ERCA on -
County, dredge.
burying site in construction, allow
880 left to arrive at specular

March 14, 1989

March 15, 1989

0800 Left to go to site in
Covington, Newton County,
Georgia.

ERCD - 6

TA7 - 1

Security 2

Weather - cloudy, mild.

0945 Still emptying vat. HAZTECH
will be delivering drums
to Tricel.

1230 Lunch break.

1550 Vat almost emptied. Many
drums needed to hold its
contents.

1700 TA7 leaves sight. Work
should be completed by
today.

Teri Nyce

APPENDIX G
Site Safety Plan

use for 8810-26
Report
2026

WESTON SPER DIVISION
HAZARDOUS WASTE SITE INVESTIGATION AND EMERGENCY RESPONSE
HEALTH AND SAFETY PLAN

U.S. EPA CONTACT: Bill Klutz

Date of Inspection: 9/28/88 Time: 8:55 am TDD No. 8809-14

Original Safety Plan: Yes X No _____ PCS No. 1779

Amendment/Modification No. _____

SITE SAFETY COORDINATOR: Karen Jarrett-Gill (for Weston)

Site Name: Spectrum Printing site

Site Address: Street No. 4132 Highway 278

City Covington

County Newton

State Covington Georgia Zip Code _____

Site Contact: Steve Holt (Contractor-Haztech) phone 981-9332

Directions to Site: (Attach Map) Go I-20 to Covington Exit. Go under inter-
foward downtown. Facility located in back. Turn right on Georgia Hwy. 12

SITE HISTORY: An abandoned facility that has recently been
sold. Plant went bankrupt and has been shut down since May 1987

INCIDENT DESCRIPTION

- TYPE: A) Spill _____ Air Release _____ Fire _____ HW Site X Other _____
B) Assessment _____ Sampling _____ Emergency Response _____
Clean-up/Removal X Other (specify) _____
C) Urban/Residential _____ Commercial _____ Industrial X
Rural _____ Remote _____

PERSONNEL PHYSICAL SAFETY HAZARDS:

Heat ✓ Cold _____ Noise _____ Underground Utilities _____
Overhead Utilities _____ Heavy Equipment _____ Slip, Trip, Fall ✓
Confined Spaces _____ Pressurized Airlines _____ Explosive _____
Ladders _____ Scaffolds _____ Unguarded Openings-Wall, Floor _____
Liquids in Open Containers, Ponds/Lagoons _____
Other Drums are packed on pallets, some of which are unsound

Clinical Manifestations of Contact

OXIDANT	NAME IUPAC	NAME COMMON	PHYSICAL CHARACTERISTICS	ROUTE OF EXPOSURE	SYMPTOMS OF ACUTE EXPOSURE	FIRST AID	
						TO INHALE	TO INGEST
Tannic Acid	not available	not available	Solid - tan color Sg. - >1 at 20°C H _c = -9,810 J/m ² /lb bp = (decomposes)	inhalation ingestion	nose & throat irritation coughing gastric disturbance	move to fresh air give large amount of water; induce vomiting	N/A
Acetone	1000 ppm	20,000 ppm	Colorless liquid mint-like odor Bo - 133°F Fl. P. - 14°F T.P. - 9.69 eV UEL - 12.0% LEL - 2.8%	inhalation ingestion contact	irritate eyes, nose throat dizziness	wash w/ soap and water	HNU 10.2 probe
MEK (methyl ethyl ketone)	200 ppm		liquid, colorless bp: 175.3°F fp: 123.3°C sg: .806	inhalation absorp-eyes	eye burn, irritate eyes nose, throat headache dizziness unconscious	move to fresh air flush eyes w/ water	
Gallic Acid	not available	not available	white solid bp decomposes	broad absorption	induce irritate nose, throat, eyes	induce vomiting flush water	
Formaldehyde	2 ppm	carcinogen	colorless liquid T.P - 10.88 eV sg: 1.1 @ 25°C	inhalation ingestion absorption	coughing chest pain nausea, vomiting abdominal pain collapse	move to fresh air induce vomiting	HNU 11.7 probe

Description of Decontamination To Be Used:

SPECIFY PPE TYPE

<u>TASK TO BE PERFORMED</u>	<u>PROTECT.</u>	<u>ANTIC. LEVEL OF</u>	<u>COVERALL</u>	<u>GLOVE</u>	<u>AIR G RESPI CART</u>
<u>PRP monitoring</u>	<u>D</u>			<u>no site entry</u>	

Anticipated Monitoring

Radiation Meter [] CGI [] HNU [] eV Probe CVA []

Detector Tube [] Other _____

EMERGENCY PHONE NUMBERS: LOCATION _____ PHONE _____ NOTIFIED _____FIRE Covington 786-5313POLICE Covington 786-2774AMBULANCE Newton County Service 786-1332HOSPITAL Newton County 786-7053

CHEMICAL TRAUMA CAPABILITY? _____

DIRECTIONS TO HOSPITAL: (ATTACH MAP) RTE. VERIFIED BY _____ DATE _____

remain on access road, go east to Covington. Go to fifth stop light, hospital on right; or from I-20, exit 45, take a left, go to fifth stop light, hospital on right side.

ADDITIONAL EMERGENCY PHONE CONTACTS:

CHEMREC	(300) 424-9300
TSCA HOTLINE	(300) 424-9065, (202) 544-1404
ATSDR	(DAY) (404) 329-2388 (NIGHT) (404) 566-7777
AT & T (EXPLOSIVES INFO.)	(300) 424-2555
NATIONAL RESPONSE CENTER	(300) 424-3302
WESTON MEDICAL EMERGENCY SERVICE	(513) 421-3063
WESTON 24 HOUR HOTLINE	(215) 524-1925, 1926
PESTICIDE INFORMATION SERVICE	(800) 845-7633
EPA ERT EMERGENCY	(201) 321-6660
RCRA HOTLINE	(300) 424-9346
CMA CHEMICAL REFERRAL CENTER	(300) 252-3200
NATIONAL POISON CONTROL CENTER	(300) 942-5969
U.S. DOT	(202) 366-0656 (Day only)

Prepared by: B. Barry Date: 9/27/88Pre-Response Approval by: B. Barry Date: 7-22-88

OBSERVED CONDITIONS/ACTIVITIES

Describe Initial Conditions (Source/Type/Quantity): Approximately 258 drums are stacked on pallets and are unsound.

DOCUMENTATIONPERFORMED BY: Terri WynnType: Photo Log Book Recorder Video PHYSICAL DESCRIPTIONsize of site: 0.25 acres Topography Flat Hot
Terrain: Flat Weather ClearDistance to Nearest: Residence 100 yd. School 1/2 mile Hospital 3/4 mile
Public Building 1/4 mile Other _____Evacuation: Yes No Number _____ By whom _____Nearest Waterway: Indian Creek (dried) Distance: 150 yards south

Condition	Observed	Potential	None
Surface Water Contamination	_____	/	_____
Ground Water Contamination	_____	/	_____
Drinking Water Contamination	_____	/	_____
Air Contamination	_____	/	_____
Soil Contamination	<input checked="" type="checkbox"/>	_____	/
Stressed Vegetation	_____	_____	/
Dead Fish, Other Animals	_____	_____	/

ACTIONS TAKEN ON SITE: (Attach Map of Site Control Zones)Was Entry Made by TAT: YES NO TASK CONDUCTED: Describe Specific PPE Used and WhyOn-site monitoring (PRP Response) of sampling conducted by contractors.

AIR MONITORING LOG

OVA Calibration _____
 IRMU Calibration _____
 OGI Calibration _____

Background O₂ _____
 Organics _____
 Radiation _____

(ATTACH CALIBRATION DATA TO LOG)

OGI _____

STATION/ LOCATION	S I T E N A M E		NAME OF AIR MONITOR	TYPE OF EQUIPMENT (IRMU(Probe/SPAN), OGI, OVA, RAD MIR)	READING	SUMMARY/COMMENTS
	DATE	TIME				
Spectrum Printing Covington, Newton County, Georgia	9/28/88		PRP Response No on-site air monitoring was done.			

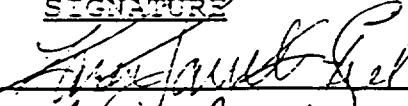
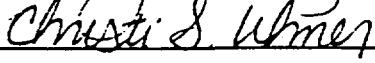
SAMPLING: CONDUCTED? YES NO /

If Yes, Describe Sampling Method _____

Has Lab Been Notified of Potential Hazard Level? Yes No

Note: This Health and Safety Plan was prepared for work to be conducted under the Technical Assistance Team (TAT) Contract 63-01-7367 Zone 1. Use of this plan by WESTON and its subcontractors on the TAT contract is intended to fulfill the OSHA requirements found in 29 CFR 1910.120. Items not specifically covered in this plan are included by reference to 29 CFR 1910 and 1926.

I have read and understand this safety plan.

<u>NAME (PRINTED)</u>	<u>SIGNATURE</u>	<u>AFFILIATION</u>	<u>DATE</u>
Karen Jarrett		TAT	9/28/88
Christi Ulmer		TAT	9/29/88
Teri Wynn	Teri Wynn	TAT	10/14/88

Final Submission of Plan by Teri Wynn Date 10/14/88

Post Response Approval Kathy M. Kennedy Date 10/11/88

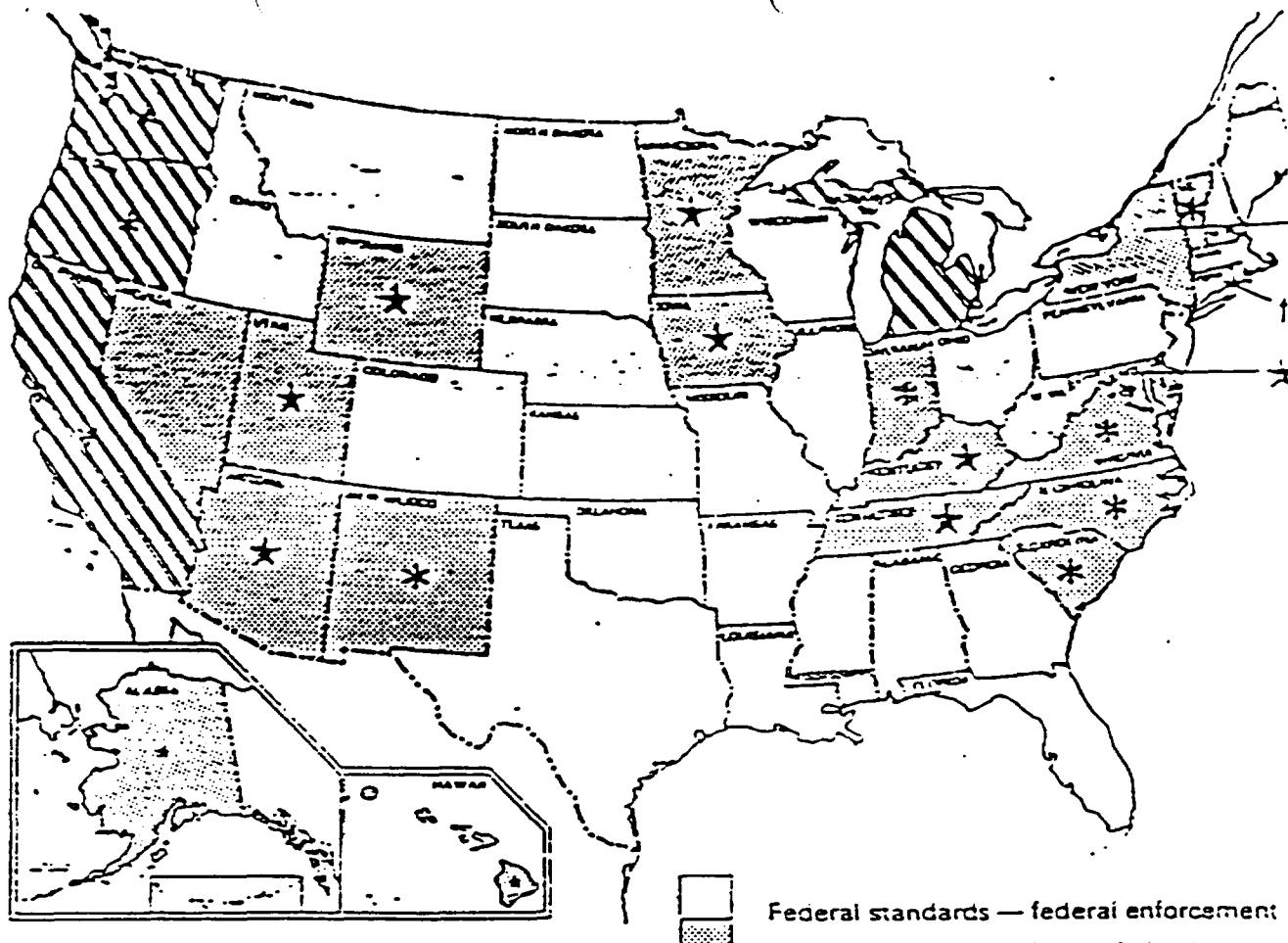
Copy to ZPMO _____ Date _____

SUPER HSC Reviewed by: _____ Date: _____

Followup Required: Yes No

Followup Performed: Date: _____ With: _____

Comments: _____



- PUERTO RICO*
- SAMOA
- GUAM
- VIRGIN ISLANDS*

- | | |
|---|---|
| | Federal standards — federal enforcement |
| | State plan — state enforced federal standards |
| | State plan — state enforced state standards |
| * | State plan certified |
| ★ | State plan has final approval |
| On-site consultation now available in all jurisdictions | |

FEDERAL OSHA AND STATE PLANS JURISDICTIONS

The above map represents the current status of jurisdictional areas for applicable OSHA or state regulations, inspections, and enforcement. At present, only four states (Washington, Oregon, California, and Michigan) have approved plans which differ significantly from federal standards.

All of the states are monitored by OSHA to determine state plan qualification. State plans must be judged "at least as effective as" the federal program in order to be approved. A state plan may receive OSHA approval by demonstrating it will meet all requirements within three years. After completing these steps and operating its program at a fully effective level for at least one year, federal enforcement will end in the areas covered by the state plan. OSHA then continues its monitoring to determine when the plan should be certified and when it should receive final approval.

* Connecticut and New York — state plan covers employees of state only; all other employees are under federal OSHA jurisdiction.

TNA

TANNIC ACID

Common Name(s) Tannic Chloro tannin Gallotannic acid Gallotannin Gallocatein	Solid Sinks and reacts with water.	Light reddish to tan Faint odor
<p>Avoid contact with eyes and skin. Keep product away. Stop discharge if possible. Call fire department. Isolate and remove unshared material. Notify local health and pollution control agencies.</p>		
Fire	Combustible Extinguish with dry chemicals or carbon dioxide. Water and foam may be ineffective; water can expand and interact with water.	
CALL FOR MEDICAL AID. DUST Irritating to eyes, nose and throat. If inhaled will cause coughing. If in eyes, hold eyelids open and flush with plenty of water. If breathing is stopped, give artificial respiration. If breathing is difficult, give oxygen. SOLID Irritating to skin and eyes. If swallowed will cause nausea and vomiting. Remove contaminated clothing and shoes. Flush affected areas with plenty of water. IF IN EYES: hold eyelids open and flush with plenty of water. IF SWALLOWED and victim is CONSCIOUS, Give victim milk, water or milk and have victim induce vomiting. IF SWALLOWED and victim is UNCONSCIOUS OR HAVING CONVULSIONS, do nothing except keep victim warm.		
Water Pollution	HARMFUL TO AQUATIC LIFE IN VERY LOW CONCENTRATIONS. May be dangerous if enters water bodies. Notify local health and wildlife officials. Notify operators of nearby water intakes.	
1. RESPONSE TO DISCHARGE <small>(See Response Methods Handbook CG-446-4)</small>	2. LABELS	
Universal and None	No hazard label required by Code of Federal Regulations	
3. CHEMICAL DESIGNATIONS	4. OBSERVABLE CHARACTERISTICS	
3.1 Synonyms: Chloro tannin; Gallotannic acid; Gallotannin; Gallocatein; Tannin	4.1 Physical State (as shipped): Solid 4.2 Color: Light tan to yellow 4.3 Odor: Faint characteristic	
3.2 Coast Guard Compatibility Classification: Not listed		
3.3 Chemical Formula: C ₇ H ₆ O ₅		
3.4 IMO/United Nations Numerical Designation: Not listed		
5. HEALTH HAZARDS		
5.1 Personal Protective Equipment: Dust mask; goggles or face shield; protective gloves		
5.2 Symptoms Following Exposure: Inhalation causes irritation of nose and throat, coughing, and sneezing. Ingestion may cause gastric disturbance. Contact with eyes causes irritation.		
5.3 Treatment for Exposure: INHALATION: move to fresh air. INGESTION: give large amount of water; induce vomiting. EYES or SKIN: flush with water.		
5.4 Toxicity by Inhalation (Threshold Limit Value): Data not available		
5.5 Short-Term Inhalation Limit(s): Data not available		
5.6 Toxicity by Ingestion: Grade 1, oral LD ₅₀ = 2,300 mg/kg (rat)		
5.7 Late Toxicity: Causes cancer of liver in rats		
5.8 Vapor (Gas) Irritant Characteristics: Data not available		
5.9 Liquid or Solid Irritant Characteristics: Data not available		
5.10 Odor Threshold: Data not available		

6. FIRE HAZARDS	8. WATER POLLUTION
6.1 Flash Point: Not pertinent (combustible solid)	8.1 Aquatic Toxicity: 17 ppm/96 hr (mosquitofish); TL ₅₀ , fresh water 41.7 mg/l - 72 hr (young chinook salmon); critical level, salt water
6.2 Flammability Limit in Air: Not pertinent	8.2 Waterbody Toxicity: Data not available
6.3 Fire Extinguishing Agents: Water, foam, dry chemical, carbon dioxide	8.3 Biological Oxygen Demand (BOD): 24% / day
6.4 Fire Extinguishing Agents Not to be Used: Water or foam may cause frothing.	8.4 Food Chain Concentration Potential: None
6.5 Special Hazards of Combustion Products: Decomposes at 210° to carbon dioxide and nitrogen, which can form irritating vapors.	
6.6 Behavior in Fire:	
6.7 Ignition Temperature: 410°F	
6.8 Electrical Hazard: Not pertinent	
6.9 Burning Rate: Not pertinent	
9. SELECTED MANUFACTURERS <ol style="list-style-type: none"> The Hatchaw Chemical Co. 1945 Fast Street Cleveland, Ohio 44113 J. T. Baker Chemical Co. Phillipsburg, N.J. 08865 Fisher Scientific Co. 711 Forbes Ave. Pittsburgh, Pa. 15219 	
7. CHEMICAL REACTIVITY <ol style="list-style-type: none"> Reactivity with Water: No reaction Reactivity with Common Materials: Stability During Transport: Stable Neutralizing Agents for Acids and Caustics: Not pertinent Polymerization: Not pertinent Inhibitor of Polymerization: Not pertinent 	
10. SHIPPING INFORMATION <ol style="list-style-type: none"> Grades or Purities: Commercial, 54%; Reagent Storage Temperature: Ambient Inert Atmosphere: No requirement Venting: Open 	
11. HAZARD ASSESSMENT CODE <small>(See Hazard Assessment Handbook CG-446-2)</small>	13. PHYSICAL AND CHEMICAL PROPERTIES
SS	13.1 Physical State at 15°C and 1 atm: Solid
	13.2 Molecular Weight: 1,701
	13.3 Boiling Point at 1 atm: Not pertinent (decomposes)
	13.4 Freezing Point: Not pertinent
	13.5 Critical Temperature: Not pertinent
	13.6 Critical Pressure: Not pertinent
	13.7 Specific Gravity: >1 at 20°C (solid)
	13.8 Liquid Surface Tension: Not pertinent
	13.9 Liquid-Water Interfacial Tension: Not pertinent
	13.10 Vapor (Gas) Specific Gravity: Not pertinent
	13.11 Ratio of Specific Heats of Vapor (Gas): Not pertinent
	13.12 Latent Heat of Vaporization: Not pertinent
	13.13 Heat of Combustion: (excl.) -9,810 Btu/lb a = 5,450 cal/g = -228 X 10 ³ J/kg
	13.14 Heat of Decomposition: Not pertinent
	13.15 Heat of Solution: Not pertinent
	13.16 Heat of Polymerization: Not pertinent
<small>*Common on pages 1 and 2.</small>	
NOTES	

ACT

ACETONE

Common Synonyms Dissolved Liquids Proprietary	Miscellaneous liquid	Colorless	Sweet odor			
<p>Floors and walls with water. Flammable, igniting paper is produced.</p>						
<p>Stay upwind and use water spray to "knock down" vapor. Shut off ignition sources and call fire department. Keep people away. Stop discharge if possible. Isolate and remove discharged material. Avoid contact with liquid and vapor. Notify local health and pollution control agencies.</p>						
Fire	FLAMMABLE. Flammable strong flame may occur. Vapor may expand or ignite in an enclosed area. Extremely flammable by any chemical, oxygen flame, or carbon dioxide water may be ineffective to fire Cool exposed containers with water.					
<p>Exposure CALL FOR MEDICAL AID.</p>						
<p>VAPOR Irritating to eyes, nose and throat. Inhalation: may cause difficult breathing or loss of consciousness. Move to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen.</p>						
<p>Liquid Irritating to eyes. Not irritating to skin. IF IN EYES: hold eyelids open and flush with plenty of water.</p>						
Water Pollution	Dangerous to aquatic life at high concentrations. May be dangerous if it enters water intakes. Notify local health and pollution control officials. Notify operators of nearby water intakes.					
1. RESPONSE TO DISCHARGE See Response Methods Handbook CG-446-44 Issue warning - high flammability Discard and flush	2. LABEL 					
3. CHEMICAL DESIGNATIONS 3.1 Synonyms: Dimethylketone 2-Propanone 3.2 Coast Guard Compatibility Classification: Klone 3.3 Chemical Formula: CH ₃ COCH ₃ 3.4 IMO United Nations Numerical Designation: 11-1040	4. OBSERVABLE CHARACTERISTICS 4.1 Physical State (as shipped): Liquid 4.2 Color: Colorless 4.3 Odor: Sweetish pleasant, resembling that of mint or fruit; pungent; sharp, penetrating residual; ketonic; pleasant; non-residual					
5. HEALTH HAZARDS						
<p>5.1 Personal Protective Equipment: Organic vapor carrier or air-supplied mask; synthetic rubber gloves, chemical safety goggles or face shield shield.</p>						
<p>5.2 Symptoms Following Exposure: INHALATION: vapor irritates to eyes and mucous membranes; acts as an anesthetic in very high concentrations. INGESTION: low order of toxicity but very irritating to mucous membranes. SKIN: prolonged excessive contact causes softening of the skin, possibly leading to dermatitis.</p>						
<p>5.3 Treatment for Exposure: INHALATION: If victim is overcome, remove to fresh air and call a physician; administer artificial respiration if breathing is irregular or stopped. INGESTION: If victim has swallowed large amounts and is conscious and not having convulsions, induce vomiting and get medical help promptly; no specific antidote known. SKIN: wash well with water. EYES: flush with water immediately for at least 15 min. Consult a physician.</p>						
<p>5.4 Toxicity by Inhalation (Threshold Limit Value): 100 ppm 5.5 Short-Term Inhalation Limit: 100 ppm for 30 min 5.6 Toxicity by Ingestion: Grade I, LD₅₀ 5 to 15 g/kg-dose 5.7 Late Toxicity: Not pertinent 5.8 Vapor (Gas) Irritant Characteristics: If present in high concentrations, vapors cause moderate irritation of the eyes or respiratory system. Effect is temporary. 5.9 Liquid or Solid Irritant Characteristics: No appreciable hazard. Practically harmless to the skin because it is very volatile and evaporates quickly from the site. 5.10 Odor Threshold: 100 ppm</p>						

6. FIRE HAZARDS	7. WATER POLLUTION																												
5.1 Flash Point: 4°F.O.C., 0°F.C.C. 5.2 Flammability Limits in Air: 2.6% - 12.6% 5.3 Fire Extinguishing Agents: Alcohol foam, dry chemical, carbon dioxide 5.4 Fire Extinguishing Agents Not to be Used: Water in straight hose stream will scatter and spread fire and should not be used. 5.5 Special Hazards of Combustion Products: Not pertinent 5.6 Behavior in Fire: Not pertinent 5.7 Ignition Temperature: 404°F 5.8 Electrical Hazard: Class I, Group D 5.9 Burning Rate: 1.9 mm/min.	5.1 Aquatic Toxicity: 14,210 ppm, 24 hr. survival, killed trout water 13,000 ppm, 48 hr. mortality fish, TL, turned water 5.2 Waterfowl Toxicity: Not pertinent 5.3 Biological Oxygen Demand (BOD): (Theoretical) 1225, 5 days 5.4 Food Chain Concentration Potential: None noted																												
	8. SELECTED MANUFACTURERS																												
	1. Allied Chemical Corp. Specialty Chemicals Div. Wilmington, Delaware Marcus Hook, Pa. 19041																												
	2. Shell Chemical Co. Industrial Chemicals Div. Houston, Texas 77001																												
	3. Union Carbide Corp. Chemicals and Plastics Div. 270 Park Ave. New York, N.Y. 10101																												
	9. CHEMICAL REACTIVITY																												
	7.1 Reactivity with Water: No reaction 7.2 Reactivity with Common Materials: No reaction 7.3 Stability During Transport: Stable 7.4 Neutralizing Agents for Acids and Caustics: Not pertinent 7.5 Polymerization: Not pertinent 7.6 Inhibitor of Polymerization: Not pertinent																												
	10. SHIPPING INFORMATION																												
	10.1 Grades or Purity: Technical: 99.5% plus 0.5% water Reagent: 99.5% plus 0.5% water 10.2 Storage Temperature: Ambient 10.3 Inert Atmosphere: No requirement 10.4 Venting: Open (flame arrester) or pressure-vacuum																												
	11. HAZARD ASSESSMENT CODE See Hazard Assessment Handbook, CG-446-34 U-P-Q-R-S																												
	12. HAZARD CLASSIFICATIONS																												
12.1 Code of Federal Regulations: Flammable liquid																													
12.2 NAFS Hazard Rating for Bulk Water Transportations																													
<table border="1"> <thead> <tr> <th>Category</th> <th>Rating</th> </tr> </thead> <tbody> <tr> <td>Fire</td> <td>3</td> </tr> <tr> <td>Health</td> <td></td> </tr> <tr> <td>Vapor Irritant</td> <td>1</td> </tr> <tr> <td>Liquid or Solid Irritant</td> <td>0</td> </tr> <tr> <td>Poisons</td> <td>0</td> </tr> <tr> <td>Water Pollution</td> <td></td> </tr> <tr> <td>Human Toxicity</td> <td>1</td> </tr> <tr> <td>Aquatic Toxicity</td> <td>1</td> </tr> <tr> <td>Aesthetic Effect</td> <td>1</td> </tr> <tr> <td>Reactivity</td> <td></td> </tr> <tr> <td>Other Chemicals</td> <td>2</td> </tr> <tr> <td>Water</td> <td>0</td> </tr> <tr> <td>Self-Reaction</td> <td>1</td> </tr> </tbody> </table>		Category	Rating	Fire	3	Health		Vapor Irritant	1	Liquid or Solid Irritant	0	Poisons	0	Water Pollution		Human Toxicity	1	Aquatic Toxicity	1	Aesthetic Effect	1	Reactivity		Other Chemicals	2	Water	0	Self-Reaction	1
Category	Rating																												
Fire	3																												
Health																													
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Aesthetic Effect	1																												
Reactivity																													
Other Chemicals	2																												
Water	0																												
Self-Reaction	1																												
12.3 NFPA Hazard Classifications:																													
<table border="1"> <thead> <tr> <th>Category</th> <th>Classification</th> </tr> </thead> <tbody> <tr> <td>Health (Hazard Blue)</td> <td>1</td> </tr> <tr> <td>Flammability (Red)</td> <td>3</td> </tr> <tr> <td>Reactivity (Yellow)</td> <td>0</td> </tr> </tbody> </table>		Category	Classification	Health (Hazard Blue)	1	Flammability (Red)	3	Reactivity (Yellow)	0																				
Category	Classification																												
Health (Hazard Blue)	1																												
Flammability (Red)	3																												
Reactivity (Yellow)	0																												
12.4 Latent Heat of VapORIZATION: 120 Mu. lb = 122 cal/g = 3.11 X 10 ³ J/kg																													
12.5 Heat of Combustion: -12,250 Mu. lb = -380 cal/g = -285.0 X 10 ³ J/kg																													
12.6 Critical Pressure: N/A plus 46.4 atm = 4.70 MN/m ²																													
12.7 Specific Gravity: 0.791 at 20°C (liquid)																													
12.8 Liquid Surface Tension: Not pertinent																													
12.9 Liquid-Water Interfacial Tension: Not pertinent																													
12.10 Vapor (Gas) Specific Gravity: 2.0																													
12.11 Ratio of Specific Heats of Vapor (Gas): 1.127																													
12.12																													
12.13 Heat of Decomposition: Not pertinent																													
12.14 Heat of Solution: Not pertinent																													
12.15 Heat of Polymerization: Not pertinent																													
12.16																													
Continued on pages 7 and 8																													
NOTES																													
REVISED 1978																													

MEK

METHYL ETHYL KETONE

Common Names MEK 2-Butanone Ethyl methyl ketone	Liquid	Colorless	Sweet odor
Fleets and burns with water. Flammable; burning vapor is produced.			
Stop discharge if possible. Keep power away. Shut off ignition sources and call fire department. Stay upwind and use water spray to "drown down" vapor. Avoid contact with liquid and vapor. Handle and remove uncharged material. Notify local health and pollution control agencies.			
FLAMMABLE Flashback along rear rail may occur. Vapor may expand if exposed to an increased area. Contact with air, normal, sulfur, heat, or carbon dioxide. Water may be ineffective as fire extinguisher. Use exposed containers with water.			
Fire			
CALL FOR MEDICAL AD. VAPOR Inhalation to eyes, nose and throat. If inhaled, will cause nausea, vomiting, headache, dizziness, difficult breathing, or loss of consciousness. Move to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen. Liquid Will burn eyes. Harmful if swallowed. Remove contaminated clothing and shoes. Clean affected area with plenty of water. IF IN EYES: Hold eyelids open and flush with plenty of water. IF SWALLOWED and victim is CONSCIOUS: have victim drink water or milk.			
Exposure			
Water Pollution	Dangerous to aquatic life at high concentrations. May be dangerous if it enters waterways. Notify local health and wildlife officials. Notify operators of nearby water intakes.		
1. RESPONSE TO DISCHARGE (See Response Methods Handbook, CG-44-2) Issue warning - high flammability Disperse and flush	2. LABEL 		
3. CHEMICAL DESIGNATIONS	4. OBSERVABLE CHARACTERISTICS		
3.1 Synonyms: 2-Butanone Ethyl methyl ketone MEK	4.1 Physical State (as shipped): Liquid 4.2 Color: Colorless 4.3 Odor: Like acetone; pleasant; pungent		
3.2 Coast Guard Compatibility Classifications: Ketone			
3.3 Chemical Formula: CH ₃ COCH ₂ CH ₃			
3.4 IMO/United Nations Numerical Designations: 32,1193			
5. HEALTH HAZARDS			
5.1 Personal Protective Equipment: Organic canister or air pack; plastic gloves; goggles or face shield.			
5.2 Symptoms Following Exposure: Liquid causes eye burn. Vapor irritates eyes, nose, and throat; can cause headache, dizziness, nausea, weakness, and loss of consciousness.			
5.3 Treatment for Exposure: INHALATION: remove victim to fresh air; if breathing is irregular or has stopped, start resuscitation and administer oxygen. EYES: wash with plenty of water for at least 15 min. and call physician.			
5.4 Toxicity by Inhalation (Threshold Limit Value): 200 ppm			
5.5 Short-Term Inhalation Limit: 200 mg/m ³ for 60 min.			
5.6 Toxicity by Ingestion: Grade 2: 0.5 to 5 g, kg/rat			
5.7 Late Toxicity: None			
5.8 Vapor (Gas) Irritant Characteristics: Vapors cause a slight smarting of the eyes or respiratory system if present in high concentrations. The effect is temporary.			
5.9 Liquid or Solid Irritant Characteristics: Moderate hazard. If spilled on clothing and allowed to remain, may cause smarting and reddening of the skin.			
5.10 Odor Threshold: 10 ppm			

6. FIRE HAZARDS	8. WATER POLLUTION
6.1 Flash Point: 30°F C.C., 22°F F.O.C.	8.1 Aquatic Toxicity: 5640 mg/l/48 hr/bluegill/TLM, fresh + salt
6.2 Flammability Limit in Air: 1.8%—11.5%	8.2 Waterborn Toxicity: Data not available
6.3 Fire Extinguishing Agents: Alcohol foam, dry chemical, or carbon dioxide	8.3 Biological Oxygen Demand (BOD): 214%, 5 days
6.4 Fire Extinguishing Agents Not to Be Used: Water may be ineffective	8.4 Food Chain Concentration Potential: None
6.5 Special Hazards of Combustion Products: Not pertinent	
6.6 Behavior in Fire: Not pertinent	
6.7 Ignition Temperature: 411°F	
6.8 Electrical Hazard: Class I, Group D	
6.9 Burning Rate: 4.1 mm/min.	
9. SELECTED MANUFACTURERS	
1. Celanese Corp. Celanese Chemical Co. Division 245 Park Ave. New York, N.Y. 10017	
2. Exxon Chemical Co. Houston, Tex. 77001	
3. Shell Chemical Co. Industrial Chemicals Division Houston, Tex. 77001	
10. SHIPPING INFORMATION	
10.1 Grades or Purity: 99.5+-5	
10.2 Storage Temperature: Ambient	
10.3 Inert Atmosphere: No requirement	
10.4 Venting: Open (flame arrester) or pressure-vacuum	
11. HAZARD ASSESSMENT CODE (See Hazard Assessment Handbook, CG-44-2)	
A-P-Q-R-S	
12. HAZARD CLASSIFICATIONS	
12.1 Code of Federal Regulations: Flammable liquid	
12.2 NAF Hazard Rating for Bulk Water Transportation:	
Category	Rating
Fire	3
Health	
Vapor Irritant	1
Liquid or Solid Irritant	1
Poisons	2
Water Pollution	
Human Toxicity	2
Aquatic Toxicity	1
Acute Effect	1
Reactivity	
Other Chemicals	2
Water	0
Self-Reaction	0
12.3 NFPA Hazard Classification:	
Category	Classification
Health Hazard (Blue)	1
Flammability (Red)	3
Reactivity (Yellow)	0
(Continued on pages 7 and 8)	
NOTES	
REVISED 1	

GALIC ACID

גרא

FMS

FORMALDEHYDE SOLUTION

Common Symptoms Formaldehyde Fume Formaldehyde solution Formaldehyde monomer		Watery liquid Colorless Irritating odor Sinks and mixes with water.
Avoid contact with liquid. Wear goggles, self-contained breathing apparatus, and rubber overclothing (including gloves). Stop discharge if possible. Call fire department. Isolate and remove discharged material. Notify local health and pollution control agencies.		
Fire		Combustible. Wear goggles, self-contained breathing apparatus, and rubber overclothing (including gloves). Extinguish with water, dry chemical, alcohol foam, or carbon dioxide. Cool exposed containers with water.
Exposure		CALL FOR MEDICAL AID. LIQUID Will burn skin and eyes. If swallowed, will cause nausea, vomiting or loss of consciousness. Remove contaminated clothing and shoes. Flush affected areas with plenty of water. IF IN EYES: hold eyelids open and flush with plenty of water. If Swallowed: If victim is CONSCIOUS, have victim drink water (or milk) and have victim induce vomiting. IF SWALLOWED AND VICTIM IS UNCONSCIOUS OR HAVING CONVULSIONS: do nothing except keep victim warm.
Water Pollution		HARMFUL TO AQUATIC LIFE IN VERY LOW CONCENTRATIONS. May be dangerous if it enters water intakes. Notify local health and wildlife officials. Notify operators of nearby water intakes.
1. RESPONSE TO DISCHARGE <small>See Response Manual Handbook, CG-44-44</small> Issue warning - Water contaminated Dilute and flush	2. LABELS <small>Label hazard label required by Code of Federal Regulations</small>	
3. CHEMICAL DESIGNATIONS <ul style="list-style-type: none"> 3.1 Synonyms: Formalin, Fide, Formalin, Methylaldehyde, Formaldehyde 3.2 Coast Guard Commodity Classification: Adhesive 3.3 Chemical Formula: $\text{HCHO} \quad \text{H}_2\text{O}\text{-CH}_2\text{OH}$ 3.4 IMO United Nations Numerical Designations: 1.2, 1.194 	4. OBSERVABLE CHARACTERISTICS <ul style="list-style-type: none"> 4.1 Physical State (as shipped): Liquid 4.2 Color: Colorless 4.3 Odor: Pungent, irritating; characteristic, pungent 	
5. HEALTH HAZARDS <ul style="list-style-type: none"> 5.1 Personal Protective Equipment: Self-contained breathing apparatus; chemical goggles; protective clothing; synthetic rubber or plastic gloves. 5.2 Symptoms Following Exposure: INHALATION: vapors are irritating and will cause coughing, chest pain, nausea, and vomiting. INGESTION: causes nausea, vomiting, abdominal pain, and collapse. Contact with skin and eyes causes severe irritation. 5.3 Treatment for Exposure: INHALATION: remove victim to fresh air; give oxygen if breathing is difficult; call a physician. INGESTION: induce vomiting at once and repeat until vomit is clear, then give milk or raw egg and call a physician. SKIN OR EYES: flush immediately with plenty of water for at least 15 min.; remove contaminated clothing; call a physician for eyes. 5.4 Toxicity by Inhalation (Threshold Limit Value): 2 ppm 5.5 Short-Term Inhalation Limit: 5 ppm for 5 min., 1 ppm for 10 min.; irritant. 5.6 Toxicity by Ingestion: (Formaldehyde solution) Grade 2, LD₅₀ 3.5 to 5 g./kg. 5.7 Late Toxicity: None 5.8 Vapor (Gas) Irritant Characteristics: Vapor is moderately irritating such that personnel will not usually tolerate moderate or high concentrations. 5.9 Liquid or Solid Irritant Characteristics: Causes blistering of the skin and first-degree burns on short exposure. May cause secondary burns on long exposure. 5.10 Odor Threshold: 0.6 ppm 		

6. FIRE HAZARDS <ul style="list-style-type: none"> 6.1 Flash Point: (77% formaldehyde) Methylal: 182°F C.C. 15% methanol: 122°F C.C. 6.2 Flammability Limits in Air: 7.0% - 7.5% 6.3 Fire Extinguishing Agents: Water, dry chemical, carbon dioxide, or alcohol foam 6.4 Fire Extinguishing Agents Not to Be Used: Data not available 6.5 Special Hazards of Combustion Products: Toxic fumes are generated. 6.6 Behavior in Fire: Not pertinent 6.7 Ignition Temperature: 404°F 6.8 Electrical Hazard: Not pertinent 6.9 Burning Rate: Not pertinent 	8. WATER POLLUTION <ul style="list-style-type: none"> 8.1 Aquatic Toxicity: (Formaldehyde) 25 mg./l. 9 hr channel cat TLm, fresh water 12 ppm 24 hr catfish TLm, fresh water 100-130 ppm 48 hr. flounder TLm salt water 8.2 Waterford Toxicity: Data not available 8.3 Biological Oxygen Demand (BOD): 1770 mg/l. 5 days, 475 mg/l. 15 days 8.4 Food Chain Concentration Potential: None 																				
9. SELECTED MANUFACTURERS <ul style="list-style-type: none"> 1. Borden, Inc. Borden Chemical Division 19 W. Broad Street Cincinnati, Ohio 45215 2. Celanese Corp. Celanese Chemical Co. Division 245 Park Ave. New York, N. Y. 10017 3. E. I. duPont de Nemours & Co., Inc. Industrial & Biochemical Dept. Wilmington, Del. 19898 																					
10. SHIPPING INFORMATION <ul style="list-style-type: none"> 10.1 Grades or Purity: 30-50% formaldehyde in water containing 0-15% methyl alcohol 10.2 Storage Temperature: Ambient 10.3 Inert Atmosphere: No requirement 10.4 Venting: Pressure-vacuum 																					
11. HAZARD ASSESSMENT CODE <small>(See Hazard Assessment Handbook, CG-44-34)</small> A-P-Q																					
12. HAZARD CLASSIFICATIONS <ul style="list-style-type: none"> 12.1 Code of Federal Regulations: Combustible Liquid 12.2 IHS Hazard Rating for Bulk Water Transportation: <table style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="text-align: center;">Category</th> <th style="text-align: center;">Rating</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Fire</td> <td style="text-align: center;">2</td> </tr> <tr> <td style="text-align: center;">Health</td> <td></td> </tr> <tr> <td style="text-align: center;">Vapor Irrit.</td> <td style="text-align: center;">3</td> </tr> <tr> <td style="text-align: center;">Liquid or Solid Irrit.</td> <td style="text-align: center;">2</td> </tr> <tr> <td style="text-align: center;">Purpos.</td> <td style="text-align: center;">3</td> </tr> </tbody> </table> 12.3 NPPA Hazard Classifications: <table style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="text-align: center;">Category</th> <th style="text-align: center;">Classification</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Health Hazard (Blue)</td> <td style="text-align: center;">2</td> </tr> <tr> <td style="text-align: center;">Harmfulness (Red)</td> <td style="text-align: center;">2</td> </tr> <tr> <td style="text-align: center;">Reactions (Yellow)</td> <td style="text-align: center;">0</td> </tr> </tbody> </table> 		Category	Rating	Fire	2	Health		Vapor Irrit.	3	Liquid or Solid Irrit.	2	Purpos.	3	Category	Classification	Health Hazard (Blue)	2	Harmfulness (Red)	2	Reactions (Yellow)	0
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13. PHYSICAL AND CHEMICAL PROPERTIES <ul style="list-style-type: none"> 13.1 Physical State at 15°C and 1 atm: Liquid 13.2 Molecular Weight: 44 13.3 Boiling Point at 1 atm: Not pertinent 13.4 Freezing Point: Not pertinent 13.5 Critical Temperature: Not pertinent 13.6 Critical Pressure: Not pertinent 13.7 Specific Gravity: 1.1 at 25°C (liquid) 13.8 Liquid Surface Tension: Not pertinent 13.9 Liquid-Water Interfacial Tension: Not pertinent 13.10 Vapor (Gas) Specific Gravity: Not pertinent 13.11 Ratio of Specific Heats of Vapor (Gas): Not pertinent 13.12 Latent Heat of Vaporization: Not pertinent 13.13 Heat of Combustion: Not pertinent 13.14 Heat of Decomposition: Not pertinent 13.15 Heat of Solution: (est.) -4 kJ/mole $= -5 \text{ cal/g} = -0.2 \times 10^3 \text{ J/kg}$ 13.16 Heat of Polymerization: Not pertinent 																					
<small>Continued on pages 1 and 2</small>																					
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